



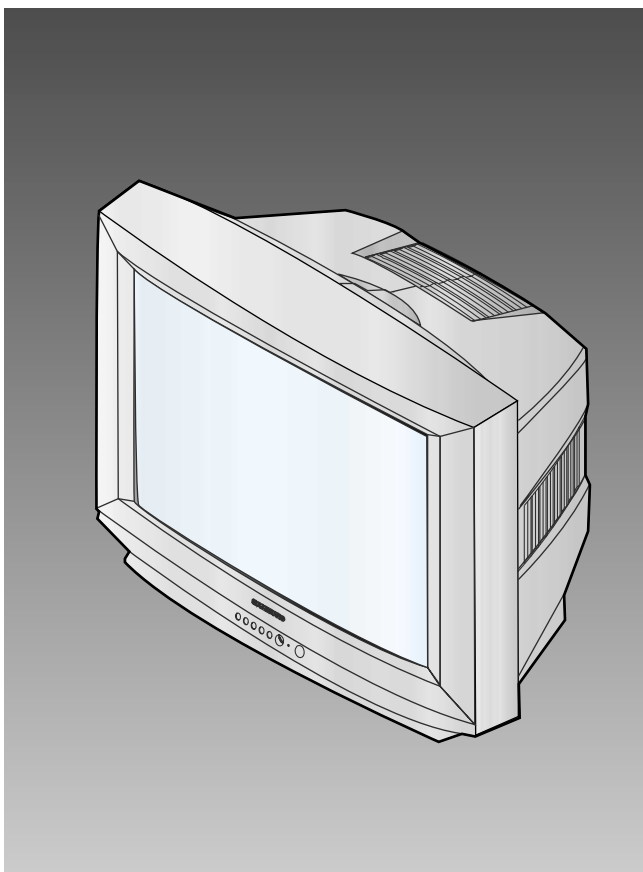
# COLOR TELEVISION RECEIVER

Chassis : KS2A(N)

Model : CL766DW7X/XAP CL766DW7X/XAX  
CL766DW7X/RCL CL765DW7X/DRI

# ***SERVICE*** Manual

## COLOR TELEVISION RECEIVER



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**ELECTRONICS**

# 1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

## 1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.
2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including: nonmetallic control knobs and compartment covers.
3. Make sure that there are no cabinet openings through which people—particularly children—might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (Figure 1-1):  
Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANIS C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).
5. With the unit completely reassembled, plug the AC line cord directly into the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

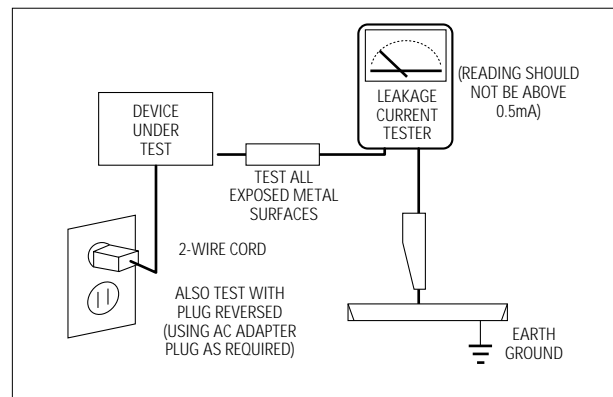




Fig. 1-1 AC Leakage Test

6. Antenna Cold Check:  
With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong. Connect the other lead to the coaxial connector.
7. X-ray Limits:  
The picture tube is especially designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original. Carefully reinstall the picture tube shields and mounting hardware; these also provide X-ray protection.
8. High Voltage Limits:  
High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits. Correct operation of the X-ray protection circuits must be reconfirmed whenever they are serviced.  
(X-ray protection circuits also may be called "horizontal disable" or "hold-down".)

Heed the high voltage limits. These include the X-ray Protection Specifications Label, and the Product Safety and X-ray Warning Note on the service data schematic.

## 1-1 Safety Precautions (Continued)

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9. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.
10. Design Alteration Warning:  
Never alter or add to the mechanical or electrical design of this unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.
11. Hot Chassis Warning:  
Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.  
  
To confirm that the AC power plug is inserted correctly, do the following: Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.
12. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, regardless of the AC plug polarity. These units can be safely serviced only if an isolation transformer inserted between the receiver and the power source.
13. Some TV chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.
14. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards.
15. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.
16. Picture Tube Implosion Warning:  
The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.
17. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.
18. Product Safety Notice:  
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original—even if the replacement is rated for higher voltage, wattage, etc.  
  
Components that are critical for safety are indicated in the circuit diagram by shading, () or ().  
Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications.  
A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

## 1-2 Servicing Precautions

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Warning1: First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

Warning2: An electrolytic capacitor installed with the wrong polarity might explode.

1. Servicing precautions are printed on the cabinet. Follow them.
2. Always unplug the unit's AC power cord from the AC power source before attempting to:  
(a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.  
  
The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

## 1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

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1. Some semiconductor (“solid state”) devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.
2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power—this is an electric shock precaution.)
3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.
4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.
5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.
6. Use only an anti-static solder removal device. Many solder removal devices are not rated as “anti-static”; these can accumulate sufficient electrical charge to damage ESDs.
7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
9. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

## 2. Reference Information

### 2-1 Tables of Abbreviations and Acronyms

**Table 2-1 Abbreviations**

A	Ampere	MV	Megavolt
Ah	Ampere-hour	MW	Megawatt
Å	Angstrom	MΩ	Megohm
dB	Decibel	m	Meter
dBm	Decibel Referenced to One Milliwatt	μA	Microampere
°C	Degree Celsius	μF	Microfarad
°F	Degree Fahrenheit	μH	Microhenry
°K	degree Kelvin	μm	Micrometer
F	Farad	μs	Microsecond
G	Gauss	μW	Microwatt
GHz	Gigahertz	mA	Milliampere
g	Gram	mg	Milligram
H	Henry	mH	Millihenry
Hz	Hertz	ml	Milliliter
h	Hour	mm	Millimeter
ips	Inches Per Second	ms	Millisecond
kWh	Kilowatt-hour	mV	Millivolt
kg	Kilogram	nF	Nanofarad
kHz	Kilohertz	Ω	Ohm
kΩ	Kilohm	pF	Picofarad
km	Kilometer	lb	Pound
km/h	Kilometer Per Hour	rpm	Revolutions Per Minute
kV	Kilovolt	rps	Revolutions Per Second
kVA	Kilovolt-ampere	s	Second (Time)
kW	Kilowatt	V	Volt
l	Liter	VA	Volt-ampere
MHz	Megahertz	W	Watt
		Wh	Watt-hour

Table 2-2 Table of Acronyms

ABL	Automatic Brightness Limiter	I/O	Input/output
AC	Alternating Current	L	Left
ACC	Automatic Chroma Control	L	Low
AF	Audio Frequency	LED	Light Emitting Diode
AFC	Automatic Frequency Control	LF	Low Frequency
AFT	Automatic Fine Tuning	MOSFET	Metal-Oxide-Semiconductor-Field-Effect-Tr
AGC	Automatic Gain Control	MTS	Multi-channel Television Sound
AM	Amplitude Modulation	NAB	National Association of Broadcasters
ANSI	American National Standards Institute	NEC	National Electric Code
APC	Automatic Phase Control	NTSC	National Television Systems Committee
APC	Automatic Picture Control	OSD	On Screen Display
A/V	Audio-Video	PCB	Printed Circuit Board
AVC	Automatic Volume Control	PLL	Phase-Locked Loop
BAL	Balance	PWM	Pulse Width Modulation
BPF	Bandpass Filter	QIF	Quadrature Intermediate Frequency
B-Y	Blue-Y	R	Right
CATV	Community Antenna Television (Cable TV)	RC	Resistor & Capacitor
CB	Citizens Band	RF	Radio Frequency
CCD	Charge Coupled Device	R-Y	Red-Y
CCTV	Closed Circuit Television	SAP	Second Audio Program
Ch	Channel	SAW	Surface Acoustic Wave(Filter)
CRT	Cathode Ray Tube	SIF	Sound Intermediate Frequency
CW	Continuous Wave	SMPS	Switching Mode Power Supply
DC	Direct Current	S/N	Signal/Noise
DVM	Digital Volt Meter	SW	Switch
EIA	Electronics Industries Association	TP	Test Point
ESD	Electrostatic Discharge	TTL	Transistor Transistor Logic
ESD	Electrostatically Sensitive Device	TV	Television
FBP	Feedback Pulse	UHF	Ultra High Frequency
FBT	Flyback Transformer	UL	Underwriters Laboratories
FF	Flip-Flop	UV	Ultraviolet
FM	Frequency Modulation	VCD	Variable-Capacitance Diode
FS	Fail Safe	VCO	Voltage Controlled Oscillator
GND	Ground	VCXO	Voltage Controlled Crystal Oscillator
G-Y	Green-Y	VHF	Very High Frequency
H	High	VIF	Video Intermediate Frequency
HF	High-Frequency	VR	Variable Resistor
HI-FI	High Fidelity	VTR	Video Tape Recorder
IC	Inductance-Capacitance	VTVM	Vacuum Tube Voltmeter
IC	Integrated Circuit	TR	Transistor
IF	Intermediate Frequency		



## 2-2 IC Line Up

Table 2 - 3 IC Line - Up					
NO	BOARD	LOC. NO	SPEC	DESCRIPTION	REMARK
1	MAIN	IC201S	VDP3112B	Video Processor	Refer to Table 2-3-1
		IC601	MSP3440D	NTSC Sound Processor	
		IC901	SDA555X	MICOM, Caption (MTP)	
		IC902	KS24L161	EEPROM	
		IC602	TDA7297	Audio AMP	Refer to Table 2-3-2
		HIC201	DRGB001	RGB Drive AMP Hybrid IC	VM Option
		IC301	LA7845	Vertical IC	
		Q401	KSD5703	Horizontal Drive IC	DH01
		D409	FMP-3FU		
		IC401	KA393	E/W Drive IC	
		Q404	IRF620		
		IC801S	3S1265R	SPS Controllor	Option
		D801S	RBV606	Bridge Diode	
		PC801S	PC123Y	Photo Coupler	
		IC805	KA78R05	5V Controlled Regulator	DDR01
		D806	FML-G12S	Rectifier Diode	
		D807			
		D805	FMG-G26S		
		IC804	KA7806	6V Regulator	
		IC803	KA78R08	8V Controlled Regulator	
		IC903	KA78RM33	3.3V Regulator	
		IC904	KIA7025AP	MICOM Reset IC	
		Q909	2N7000	IIC Level Shifter	
		Q910			
		TU01	TCPN3081PA09A(S)	Main Tuner with IF Block	
		D813	FML-G12S	Rectifier Diode	

Table 2 - 3 IC Line - Up

NO	BOARD	LOC. NO	SPEC	DESCRIPTION	REMARK
2	CRT	IC501	TDA6101Q	Video Output AMP R.G.B Drive	
		IC502			
		IC503			
		QF04	2SC2344	Push-Pull (VM)	Option
		QF05	2SA1011		
3	V-S/W	ICS01	TEA6425	Video Switching IC with Adder Output	Option
4	PIP	ICP01	SDA9388X	High-end Picture-In Picture IC	Option

Table 2-3-1 VIDEO IC

SPEC	FUNCTION	REMARK
VDP3108B	Basic 1H Comb Filter	
VDP3130Y	2H Comb Filter, DVD Input	

Table 2-3-2 SOUND AMP

SPEC	FUNCTION	REMARK
TDA7297	7W x 2CH, 10W x 2CH	
TDA7266S	3W x 2CH, 5W x 2CH	

### 3. Specifications

<b>Television System</b>	<b>Multi</b>	NTSC-M, PAL N.M	Option
<b>Antena Input</b>		75ohms, Coaxial Cable	
<b>Power</b>	<b>Consumption</b>	160W (Applied When 29" Flat)	Option
	<b>Requirements</b>	Free Volts(100V-240Volts)	Option
		Free Voltage	Not Present R815
	<b>Frequency</b>	50/60Hz	
<b>Sound</b>	<b>Output</b>	15W x 2CH	
		10W x 2CH	
		5W x 2CH	
	<b>Effect</b>	Vitual Dolby	Option
		Turbo Sound	
		Pseudo Stereo	
<b>Jacks</b>	<b>Front (AV2)</b>	RCA Input	
		S-VHS	Option
		Head-Phone	
	<b>Back</b>	2 AV Input	
		DVD Input(YPbPr)	Option
		AV2 Monitor Audio Output	Option
		S-VHS	Option

Specifications are subject to change.

# MEMO

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## 4. Alignment and Adjustments

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### 4-1 General Alignment Instructions

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1. Usually, a color TV-VCR needs only slight touch-up adjustment upon installation. Check the basic characteristics such as height, horizontal and vertical sync and focus.
2. Observe the picture for good black and white details. There should be objectionable color shading; if color shading is present, demagnetize, perform purity and convergence adjustments described below.
3. Use the specified test equipment or its equivalent.
4. Correct impedance matching is essential.
5. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV. When inserting signal markers, do not allow the marker generator to distort test results.
6. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.
7. Do not attempt to connect or disconnect any wires while the TV is turned on. Make sure that the power cord is disconnected before replacing any parts.
8. To protect against shock hazard, use an isolation transformer.

### 4-2 Automatic Degaussing

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A degaussing coil is mounted around the picture tube, so that external degaussing after moving the TV should be unnecessary. But the receiver must be properly degaussed upon installation.

The degaussing coil operates for about 1 second after the power is switched ON. If the set is moved or turned in a different direction, the power should be OFF for at least 10 minutes.

If the chassis or parts of the cabinet become magnetized, poor color purity will result. If this happens, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube and the sides and front of the receiver. Slowly withdraw the coil to a distance of about 6 feet before turning power OFF.

If color shading persists, perform the following Color purity and Convergence adjustments.

### 4-3 High Voltage Check

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**CAUTION :** There is no high voltage adjustment on this chassis. The B+ power supply should be +135 volts (with full color- bar input and normal picture level).

1. Connect a digital voltmeter to the second anode of the picture tube.
2. Turn on the TV. Set the Brightness and Contrast controls to minimum (zero beam current).
3. Adjust the Brightness and contrast controls to both extremes. Ensure that the high voltage does not exceed 30 KV under any conditions.

## 4-4 FOCUS Adjustment

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1. Input a black and white signal.
2. Adjust the tuning control for the clearest picture.
3. Adjust the FOCUS control for well defined scanning lines in the center area of the screen.

## 4-5 SCREEN Adjustment

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1. Input Toshiba Pattern
2. Enter "Service Mode".(Refer to "4-8-1 Service Mode")
3. Select "G2-Adjust".
4. Set the values as below.

Table 1. Screen Adjustment Table

No	INCH / CRT	IBRM	WDRV	CDL	COLR G B (Smallest Value)	REGION
1	14" / SDI	205	35	100	100	Normal
2	15PF / SDI	220	35	180	100	
3	21" 1.7R / SDI	220	35	180	100	
4	20V 10.0R/SDI	205	35	115	120	
5	21PF / TSB	220	35	180	65	
6	21PF / LG	230	35	230	65	
7	21PF / SDI	220	35	210	65	
8	25PF / SDI	210	35	160	120	
9	27V 1.3R / SDI	210	35	170	150	
10	27V 1.0R/SDI	210	35	150	180	
11	25V 1.0R/SDI	210	35	150	180	
12	23V 1.3R/SDI	205	35	120	140	

5. Turn the SCREEN VR until "MRCR G B" and "MRWDG" are green and those value are about 100.  
(The incorrect SCREEN Voltage may result that "MRCR G B" and "MRWDG" should be red)

## 4-6 E<sup>2</sup>PROM (IC902) Replacement

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1. When IC902 is replaced, all adjustment data revert to the initial values.  
So, all adjustment values when servicing should be readjusted.
2. After IC902 is replaced, connect the AC power supply cord.
3. Turn the power switch ON.
4. In stand-by, warm up the TV for at least 10 seconds.
5. Power on the TV.

## 4-7 White Balance Adjustment

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■ Equipment : Color-Analyzer (CA-100)

■ Input Signal : Pattern signal (Toshiba pattern)

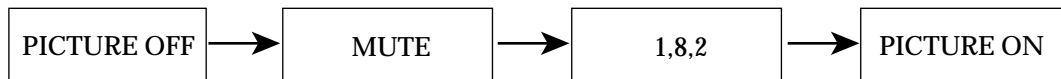
1. Select STANDARD from the menu.
2. Input an 100% White pattern.
3. Enter the "Service Mode". (Refer to "4-8 Service Mode")
4. Warm up the TV set at least for 30 minutes.
5. Input a Toshiba pattern signal.
6. Enter the "Video Adjust1".
  - Adjust "Sub Contrast" so that Y (luminance) becomes  $65 \text{ ft} \pm 3$ .
  - Use "Red Drive" and "Blue Drive" to adjust High-Light (x : 265, y : 265)
  - Adjust "Sub Bright" so that Y (luminance) becomes  $1.2 \text{ ft} \pm 0.3$ .
  - Use "Red Cutoff" and "Blue Cutoff" to adjust Low-Light (x : 265, y : 265).
7. Adjust CA-100 so that the final adjustment value can be fixed.
8. Use the Channel Up/Down (▲/▼) buttons to move the cursor on the adjustment modes.
9. Use the Volume +/- buttons to change the adjustment value.

## 4-8 Factory Adjustment

### 4-8-1 Service Mode

1. To enter the "Service Mode", Press the remote-control keys in this sequence :

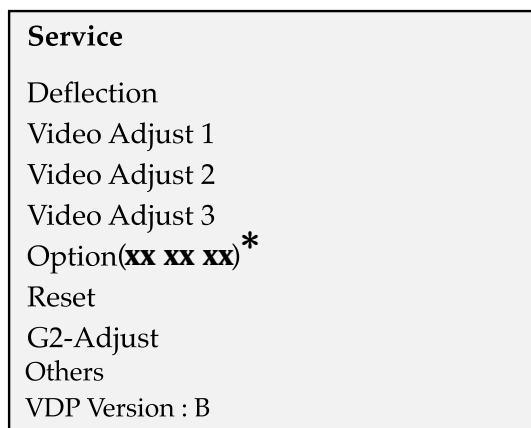
- If you do not have Factory remote-control



- If you have Factory remote-control



2. After the Service Mode is entered, the initial screen is as shown in the figure below.



\* These hexa digits are check sum value which depends on the MICOM version.  
If check sum value is changed, the value of E<sup>2</sup>PROM Data newly initialed.

3. Use the Channel Up/Down buttons to move the cursor in the adjustment parameters.

**Note :**

- When CRT, CRT PCB, FBT, E<sup>2</sup>PROM (sometimes MICOM) is replaced, the adjustment values should be controlled.
- After the Service adjustment is completed, Do not select "Reset" in the service mode menu.  
(After above procedure is done, power is on initially and the "Plug and Play" will be operated.)



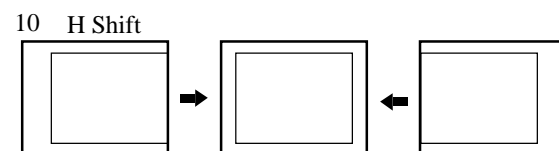
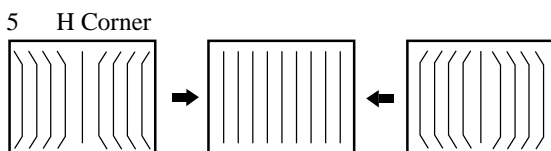
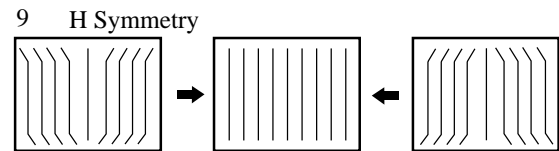
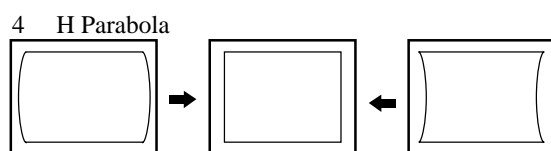
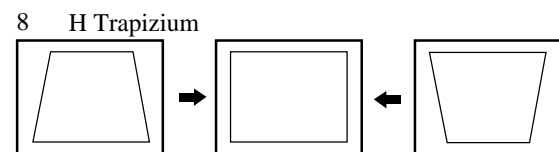
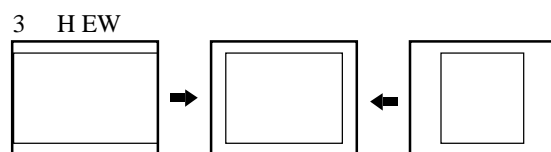
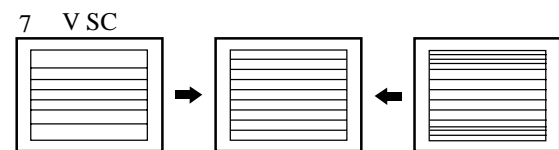
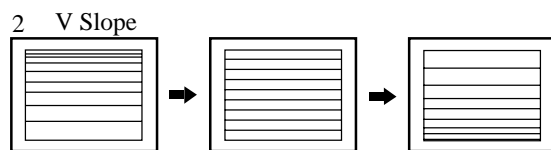
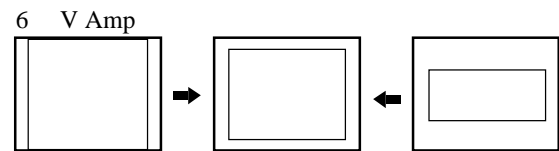
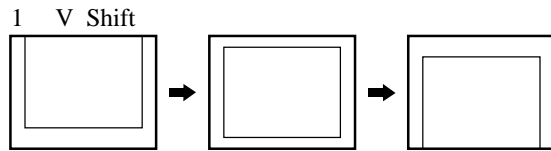
## 4-8-2 Deflection (Memory Data)

- SIM408A USA, LATIN FACTORY (VDP IC VDP3108B)

### 4-8-2(A) GEOMETRIC ADJUSTMENT VALUE

INCH			27V 1.3R	23V 1.3R	25V 1R	27V 1R	20V 1R	15" FLAT
Model			TXK2767	CL25D4W	TXK2550 TXK2554 TXK2566 TXK2567 CL663BW	TXK2750 TXK2754	TXK2060 TXK2066 TXK2067	CT-15A8
DEFLECTION	INIT							
H Bow	0	FIX	0	0	0	0	0	0
H Angle	0	FIX	0	0	0	0	0	0
H Dsc	0	FIX	3	3	3	3	3	3
V SHIFT	-40	Control	-27	-24	-18	-18	-40	-35
V AMP	5	Control	-50	-41	18	18	5	20
V SLOPE	-2	Control	-7	-4	-4	-4	-2	-4
V SC	-7	FIX	0	-13	-13	-13	-13	-13
H EW	64	Control	10	-37	64(FIX)	64(FIX)	64(FIX)	64(FIX)
H TRAPEZIUM	-20	Control	-82	-48	-20(FIX)	-20(FIX)	-20(FIX)	-20(FIX)
H PARABOLA	-13	Control	-89	-44	-13(FIX)	-13(FIX)	-13(FIX)	-13(FIX)
H SYMMETRY	13	FIX	13	13	13	13	13	13
H CORNER	15	Control	0	69	69(FIX)	69(FIX)	69(FIX)	69(FIX)
H SHIFT	4	Control	0	8	13	13	4	13
PIP CONTRAST		FIX	0	0	0	0	0	0
PIP TINT		FIX	0	0	0	0	0	0
PIP PAL V.POS		FIX	12	12	12	12	12	12
PIP NTSC V.POS		FIX	12	12	12	12	12	12
PIP H.POS		FIX	12	12	12	12	12	12

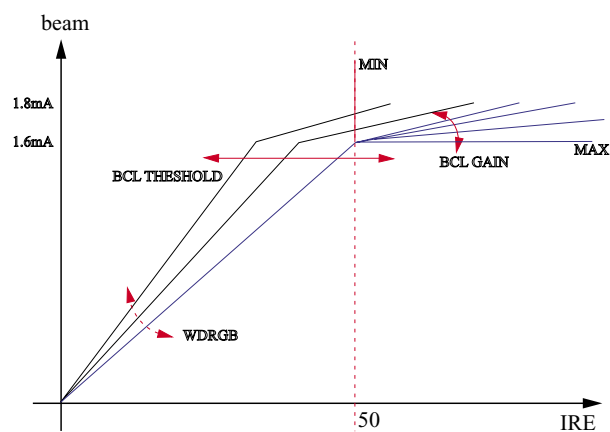
4-8-2(B) SCREEN CHANGE (I2C BUS GEOMETRIC ADJUSTMENT)



## 4-8-2(C) VIDEO ADJUST 1

INCH			27V 1.3R	23V 1.3R	25V 1R	27V 1R	20V 1R	15" FLAT
Model			TXK2767	CL25D4W	TXK2550 TXK2554 TXK2566 TXK2567 CL663BW	TXK2750 TXK2754	TXK2060 TXK2066 TXK2067	CT-15A8
VIDEO ADJUST1	INIT							
RED CUT OFF	127	Control	127	127	127	127	127	127
GREEN CUT OFF	127	FIX	127	127	127	127	127	127
BLUE CUT OFF	127	Control	127	127	127	127	127	127
RED DRIVE	127	Control	150	127	127	127	127	127
GREEN DRIVE	127	FIX	127	127	127	127	127	127
BLUE DRIVE	127	Control	170	127	127	127	127	127
SUB BRIGHT	110	Control	100	110	100	100	114	110
SUB CONTRAST	52	Control	52	52	52	52	52	52
SUB COLOR	27	FIX	50	50	50	50	50	67
SUB TINT	30	FIX	70	70	70	70	30	15
BCL THRESHOLD	62	FIX	60	54	58	58	70	40
BCLGAIN	8	FIX	8	8	8	8	8	8
BCL TIME	13	FIX	10	10	10	10	10	13
DVD SUB TINT	90	FIX	100	100	100	100	100	120
N. YC DELAY	0	FIX	3	3	3	3	3	4

## Note 1. Beam Control Limit Characteristic



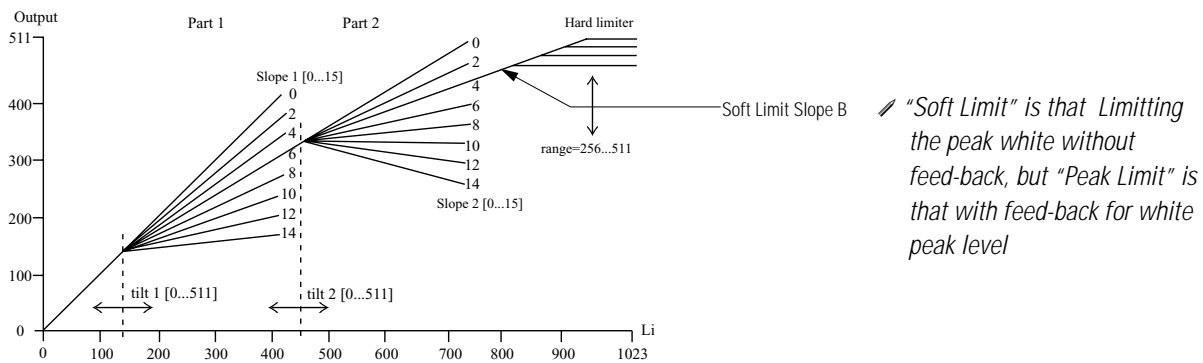
## 4-8-2(D) VIDEO 2 ADJUST

INCH			27V 1.3R	23V 1.3R	25V 1R	27V 1R	20V 1R	15" FLAT
Model			TXK2767	CL25D4W	TXK2550 TXK2554 TXK2566 TXK2567 CL663BW	TXK2750 TXK2754	TXK2060 TXK2066 TXK2067	CT-15A8
VIDEO ADJUST2	INIT							
B STRETCH-BTHR	50	FIX	50	50	50	50	50	50
B DTRETC-BTLT	8	FIX	8	8	8	8	8	8
B STERTCH-BAM	4	FIX	4	4	4	4	4	4
CORING	31	FIX	31	31	31	31	31	31
NTSC COMB FILTER	1	FIX	1	1	1	1	1	1
RGB BRIGHT	0	FIX	0	0	0	0	0	0
RG B CONTRAST	0	FIX	0	0	0	0	0	0
EHT TIME	0	FIX	0	0	0	0	0	0
EHT VERTICAL		FIX	60	60	60	60	60	60
DTI CORING		FIX	0	0	0	0	0	0
DTI GAIN		FIX	1	1	1	1	1	1
DTI BAND		FIX	1	1	1	1	1	1
EHT OFFSET		FIX	0	0	0	0	0	0
EHT HORIZONTAL		FIX	0	0	0	0	0	0

## 4-8-2(E) VIDEO 3 ADJUST

INCH			27V 1.3R	23V 1.3R	25V 1R	27V 1R	20V 1R	15" FLAT
Model			TXK2767	CL25D4W	TXK2550 TXK2554 TXK2566 TXK2567 CL663BW	TXK2750 TXK2754	TXK2060 TXK2066 TXK2067	CT-15A8
VIDEO ADJUST3	INIT							
PEAK WHITE LIMIT	255	FIX	255	255	255	255	255	255
SOFT LIMIT SLOPE B	4	FIX	4	4	4	4	4	4
HARD LIMIT	255	FIX	255	255	255	255	255	255
MODULATION ON/OFF	0	FIX	0	0	0	0	0	0
A TILT POINT	0	FIX	0	0	0	0	0	0
B TILT POINT	0	FIX	114	114	114	114	114	114
GAIN 1 (VIDEO)		FIX	11	11	11	11	11	11
DELAY 1 (VIDEO)		FIX	3	3	3	3	3	3
PEAK VIDEO REF		FIX	0	0	0	0	0	0
PEAK VIDEO GAIN		FIX	0	0	0	0	0	0
LIMIT VALUE		FIX	74	74	74	74	74	74
VELOCITY DELAY		FIX	7	7	7	7	7	7
VELOCITY CORING		FIX	10	10	10	10	10	10
ACC-REF	20	FIX	20	20	20	20	20	20
ACCR	21	FIX	21	21	21	21	21	21

## Note 2. Soft Limit & Hard Limit Characteristics



### 4-8-2(F) OTHERS

INCH			27V 1.3R	23V 1.3R	25V 1R	27V 1R	20V 1R	15" FLAT
Model			TXK2767	CL25D4W	TXK2550 TXK2554 TXK2566 TXK2567 CL663BW	TXK2750 TXK2754	TXK2060 TXK2066 TXK2067	CT-15A8
OTHERS	INIT							
VSU	108	FIX	108	104	100	100	104	110
VSU2		FIX	0	0	0	0	0	0
H QEW	0	FIX	0	0	0	0	0	0
H ZOOM Parabola	8	FIX	-22	-35	8	8	8	8
H 16:9 Parabola	-10	FIX	8	13	-18	-18	-18	-10
TTX H Shift	0	FIX	0	0	0	0	0	0
PAL V SHIFT		FIX	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET
PAL H SHIFT		FIX	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET
Melody Volume	5	FIX	7	7	7	7	7	7
WHITE BALANCE	H	Control	275/295 35FL	275/295 35FL	275/295 35FL	275/295 35FL	275/295 35FL	275/295 95FL
	L	Control	275/295 1.2FL	275/295 1.2FL	275/295 1.2FL	275/295 1.2FL	275/295 1.2FL	275/295 2.0FL

### 4-8-2(G) G2 ADJUST

INCH		27V 1.3R	23V 1.3R	25V 1R	27V 1R	20V 1R	15" FLAT
Model		TXK2767	CL25D4W	TXK2550 TXK2554 TXK2566 TXK2567 CL663BW	TXK2750 TXK2754	TXK2060 TXK2066 TXK2067	CT-15A8
G2 Adjust							
MRC R G B	Max	110	110	110	110	110	110
MRWDG		110	110	110	110	110	110
IBRM	FIX	210	205	210	210	205	220
WDRV	FIX	35	35	35	35	35	35
CDL	FIX	170	120	150	150	115	180
COL	MIN	150	140	150	150	120	100

### 4-8-3 Deflection (Memory Data)

- SIM408A USA, LATIN FACTORY (VDP IC VDP3130Y)

#### 4-8-3(A) GEOMETRIC ADJUSTMENT VALUE

INCH Model			27V 1.3R	15" FLAT CL15A8	21" FLAT CL21A8	25" FLAT CL25A6
DEFLECTION	INIT		TXK2768	CL15A8	CL21A8	CL25A6
H ROW		FIX	0	0	0	0
H Angle		FIX	0	0	0	0
H Angle		FIX	0	0	0	0
V DSC		FIX	3	2	2	3
V SHIFT	-40	Control	-27	-35	-27	-50
V AMP	5	Control	-50	20	6	-15
V SLOPE	-2	Control	-7	-4	-6	-2
V SC	-7	FIX	-6	-6	-6	-6
H E.W	64	Control	10	64(FIX)	43	10
H TRAPEZIUM	-20	Control	-82	-20(FIX)	-20	-20
H PARABOLA	-13	Control	-89	-13(FIX)	-29	-60
H SYMMETRY	13	FIX	13	13	13	13
H CORNER	15	Control	0	69(FIX)	69	69
H SHIFT	4	Control	0	13	-24	-27
PIP CONTRAST		FIX	10	0	0	0
PIP TINT		FIX	63	0	0	0
PIP PAL V.POS		FIX	12	12	12	12
PIP NTSC V.POS		FIX	12	12	12	12
PIP H.POS		FIX	12	12	12	12

#### 4-8-3(B) VIDEO ADJUST 1

INCH Model			27V 1.3R	15" FLAT CL15A8	21" FLAT CL21A8	25" FLAT CL25A6
VIDEO ADJUST	INIT		TXK2768	CL15A8	CL21A8	CL25A6
RED CUT OFF	127	Control	127	127	127	127
GREEN CUT OFF	127	FIX	127	127	127	127
BLUE CUT OFF	127	Control	127	127	127	127
RED DRIVE	127	Control	127	127	127	127
GREEN DRIVE	127	FIX	127	127	127	127
BLUE DRIVE	127	Control	170	127	127	127
SUB BRIGHT	110	Control	100	110	110	110
SUB CONTRAST	52	Control	52	52	52	52
SUB COLOR	27	FIX	50	67	87	87
SUB TINT	30	FIX	70	15	30	30
BCL THRESHOLD	62	FIX	60	40	62	60
BCL GAIN	8	FIX	9	9	9	9
BCL TIME	13	FIX	5	5	5	5
DVD SUB TINT	90	FIX	25	25	25	25
N. VC DELAY	0	FIX	3	4	4	4

## 4-8-2(C) VIDEO 2 ADJUST

Model				27V 1.3R	15" FLAT CL15A8	21" FLAT CL21A8	25" FLAT CL25A6
Model				TXK2768	CL15A8	CL21A8	CL25A6
VIDEO ADJUST2	INIT						
B STRETCH-BTHR	50	FIX		50	50	50	50
B STRETCH-BMT	8	FIX		8	8	8	8
B STRETCH-BAM	4	FIX		4	4	4	4
CORING	31	FIX		31	31	31	31
NTSC COMP FILTER	1	FIX		3	3	3	3
RGB BRIGHT	0	FIX		0	0	0	0
RGB CONTRAST	0	FIX		0	0	0	0
EHT TIME	0	FIX		8	8	8	8
EHT VERTICAL	60	FIX		60	60	60	60
DTI CORING	0	FIX		0	0	0	0
DTI GAIN	1	FIX		1	1	1	1
DTI BAND	1	FIX		1	1	1	1
EHT OFFSET	0	FIX		0	0	0	0
EHT HORIZONTAL	0	FIX		0	0	0	0

## 4-8-2(D) VIDEO 3 ADJUST

Model				27V 1.3R	15" FLAT CL15A8	21" FLAT CL21A8	25" FLAT CL25A6
Model				TXK2768	CL15A8	CL21A8	CL25A6
VIDEO ADJUST3	INIT						
PEAK WHITE LIMIT	255	FIX		255	255	255	255
SOFT LIMIT SLOPE B	4	FIX		4	4	4	4
HARD LIMIT	255	FIX		255	255	255	255
MODULATION ON/OFF	0	FIX		0	0	0	0
A TILT POINT	0	FIX		0	0	0	0
B TILT POINT	0	FIX		114	114	114	114
GAIN 1 (VIDEO)	11	FIX		11	11	11	11
DELAY 1 (VIDEO)	3	FIX		3	3	3	3
PEAK VIDEO REF	0	FIX		0	0	0	0
PEAK VIDEO GAIN	0	FIX		0	0	0	0
LIMIT VALUE	127	FIX		127	74	74	74
VELOCITY DELAY	7	FIX		7	7	7	7
VELOCITY CORING	2	FIX		2	10	10	10
ACC-REF	20	FIX		20	20	20	20
ACCR	21	FIX		21	21	21	21

4-8-3(E) OTHERS

INIT			27V 1.3R	15" FLAT	21" FLAT	25" FLAT
Model						
OTHERS			TXK2768	CL15A8	CL21A8	CL25A6
OTHERS	INIT					
VSU	108	FIX	108	110	100	108
VSU2	0	FIX	0	0	0	0
H 25W Parabola	0	FIX	0	0	0	0
H 700M Parabola	8	FIX	-22	8	8	-12
H 16-9 Parabola	-10	FIX	8	-10	-13	0
PIF BRIGHT CONTROL	1	FIX	OFFSET	OFFSET	OFFSET	OFFSET
PAL V SHIFT		FIX	OFFSET	OFFSET	OFFSET	OFFSET
PAL H SHIFT		FIX	OFFSET	OFFSET	OFFSET	OFFSET
Melody Volume		FIX	OFFSET	OFFSET	OFFSET	OFFSET
PIP BRIGHT	5	FIX	7	7	7	7
PIP COLOR		FIX	5	5	5	5
PIP COLOR		FIX	7	7	7	7
WHITE BALANCE	H	Control	275/295 35FL	275/295 95FL	275/295 65FL	275/295 50FL
WHITE BALANCE	L	Control	275/295 1.2FL	275/295 2.0FL	275/295 1.2FL	275/295 1.4FL

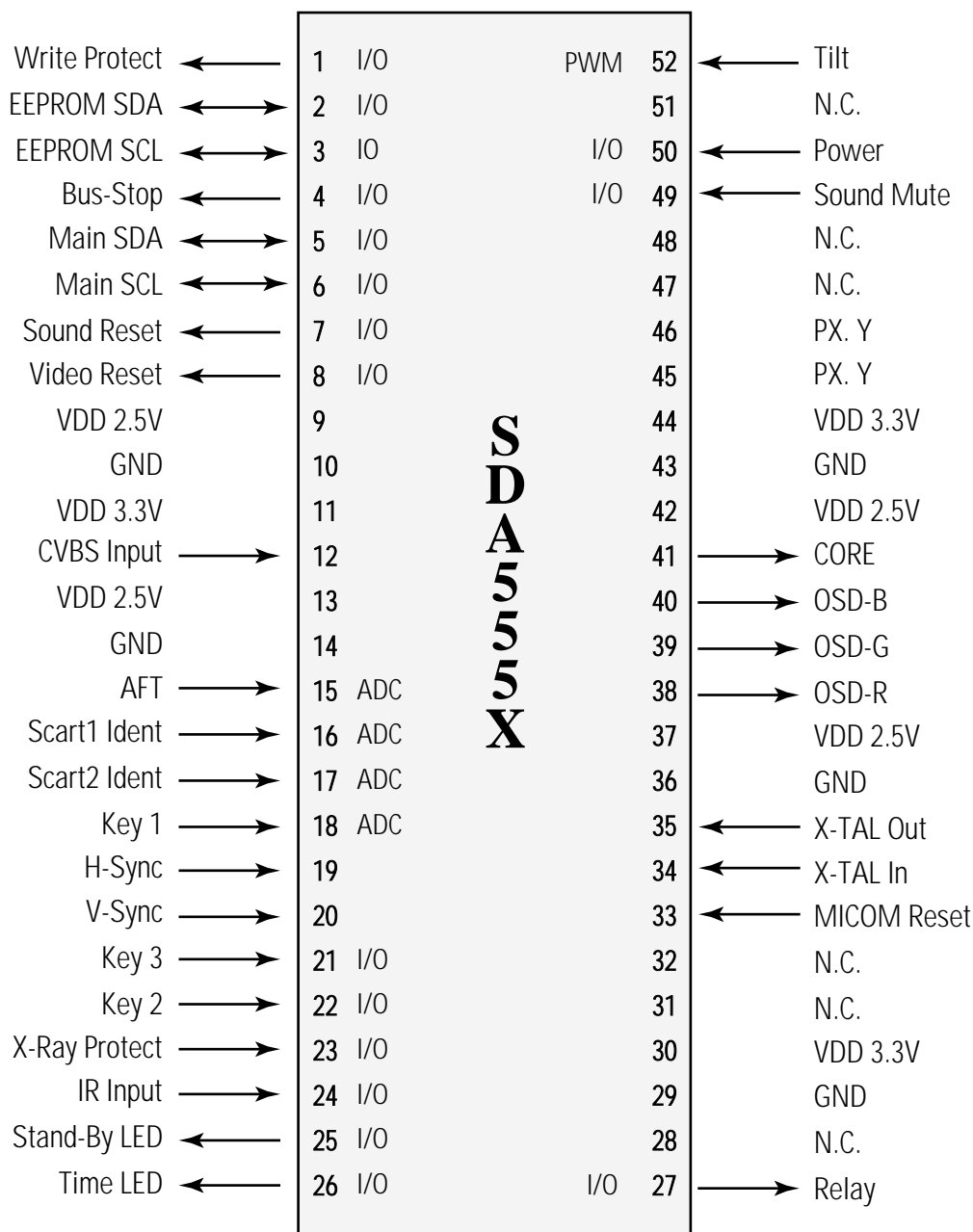
4-8-3(F) G2+2 ADJUST

INIT		27V 1.3R	15" FLAT	21" FLAT	25" FLAT
Model					
		TXK2768	CL15A8	CL21A8	CL25A6
MRC R G B	Max	110	110	110	110
MRWDG		110	110	110	110
IBRM	FIX	210	220	220	210
WDRV	FIX	35	35	35	35
COL	FIX	170	180	180	160
COL	MIN	150	100	65	120



## 4-9 MICOM

### 4-9-1 Pin Layout



## 4-9-2 Pin Assignment Specification

PIN NO	FUNCTION	ASSIGN	IN/OUT	ACTIVE H/L	DESCRIPTION
1	I/O	Write Protect	Out	Low	EEPROM Write Protection
2	I/O	ROM SDA	I/O		EEPROM Serial Data Line
3	I/O	ROM SCL	I/O		EEPROM Serial Clock Line
4	I/O	Bus Stop	In	Low	Disable Micom IIC
5	I/O	Main SDA	I/O		Peripheral IC Serial Data Line
6	I/O	Main SCL	I/O	Low	Peripheral IC Serial Clock Line
7	I/O	Sound Reset	Out	Low	MSP IC Initial Control
8	I/O	Video Reset	Out		VDP IC Initial Control
9	Vdd	VDD 2.5V			
10	GND				
11	Vdd	VDD 3.3V			
12	CVBS	CVBS Input	In		TTX CVBS Input
13	Vdd	VDD 2.5V			Analog B+
14	GND				Analog Ground
15	ADC	AFT	In		Auto Fine Tuning Control
16	ADC	SC1-ID	In		Scart1 Ident
17	ADC	SC2-ID	In		Scart2 Ident
18	ADC	Key1	In		Key1 Input
19	HS	H-Sync	In		Horizontal Sync Input
20	VS	V-Sync	In		Vertical Sync Input
21	I/O	Key3	In		Key3 Input
22	I/O	Key2	In		Key2 Input
23	I/O	X-Ray	In		X-Ray Protection
24	I/O	IR-In	In		Remocon Signal Input
25	I/O	STD-LED	Out		LED Drive Output(Red)
26	I/O	TIM-LED	Out		LED Drive Output(Green)

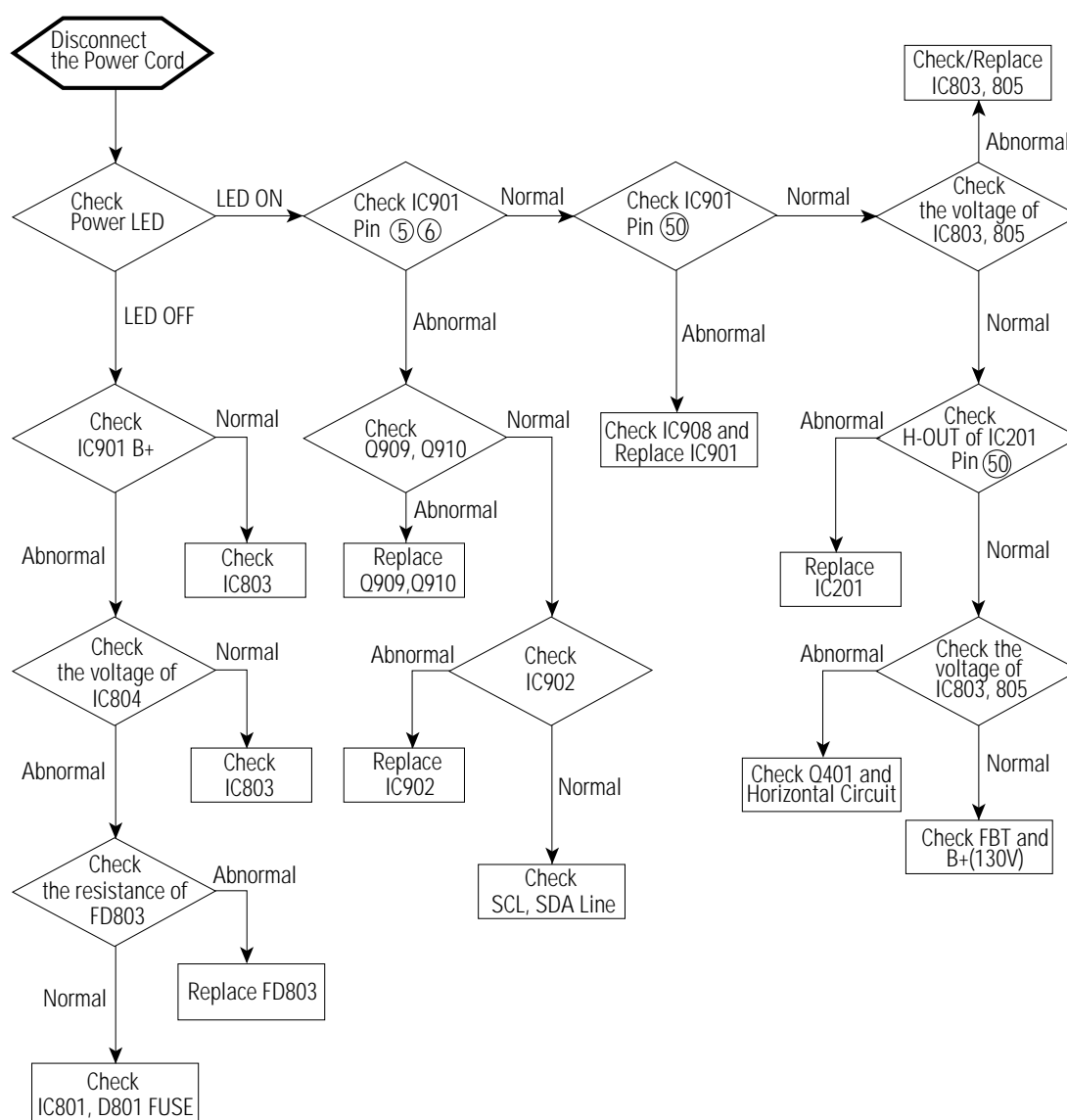
## 4-9-2 Pin Assignment Specification (Continued)

PIN NO	FUNCTION	ASSIGN	IN/OUT	ACTIVE H/L	DESCRIPTION
27	I/O	Relay	Out	Low	Activate Degaussing Coil
28	N.C.				Not Used (Programmed Gound Level)
29	GND				Analog Ground
30	Vdd	VDD 3.3V			Not Used (Programmed Gound Level)
31	N.C.				Not Used (Programmed Gound Level)
32	N.C.				Micom Hardware Reset
33	Reset	Reset	In	Low	Crystal Oscillation Input
34	X-In	X-TAL In	In	6MHz	Crystal Oscillation Output
35	X-Out	X-TAL Out	Out	6MHz	Analog Ground
36	GND				Analog B+
37	Vdd	VDD 2.5V			OSD/TTX Output (Red)
38	R	OSD-R	Out		OSD/TTX Output (Green)
39	G	OSD-G	Out		OSD/TTX Output (Blue)
40	B	OSD-B	Out		Fast Blank/Half Contrast Output
41	COR	CORE	Out		
42	Vdd	VDD 2.5V			
43	GND				
44	Vdd	VDD 3.3V			
45	I/O	PX.Y	In		When The Caption Function Adopted, Used.
46	I/O	PX.Y	Out		
47	N.C.				Not Used (Programmed Gound Level)
48	N.C.				
49	I/O	S-Mute	Out	High	Sound Amp Mute
50	I/O	Power	Out	Low	Picture On/Off Control
51	N.C.				Not Used (Programmed Gound Level)
52	I/O				

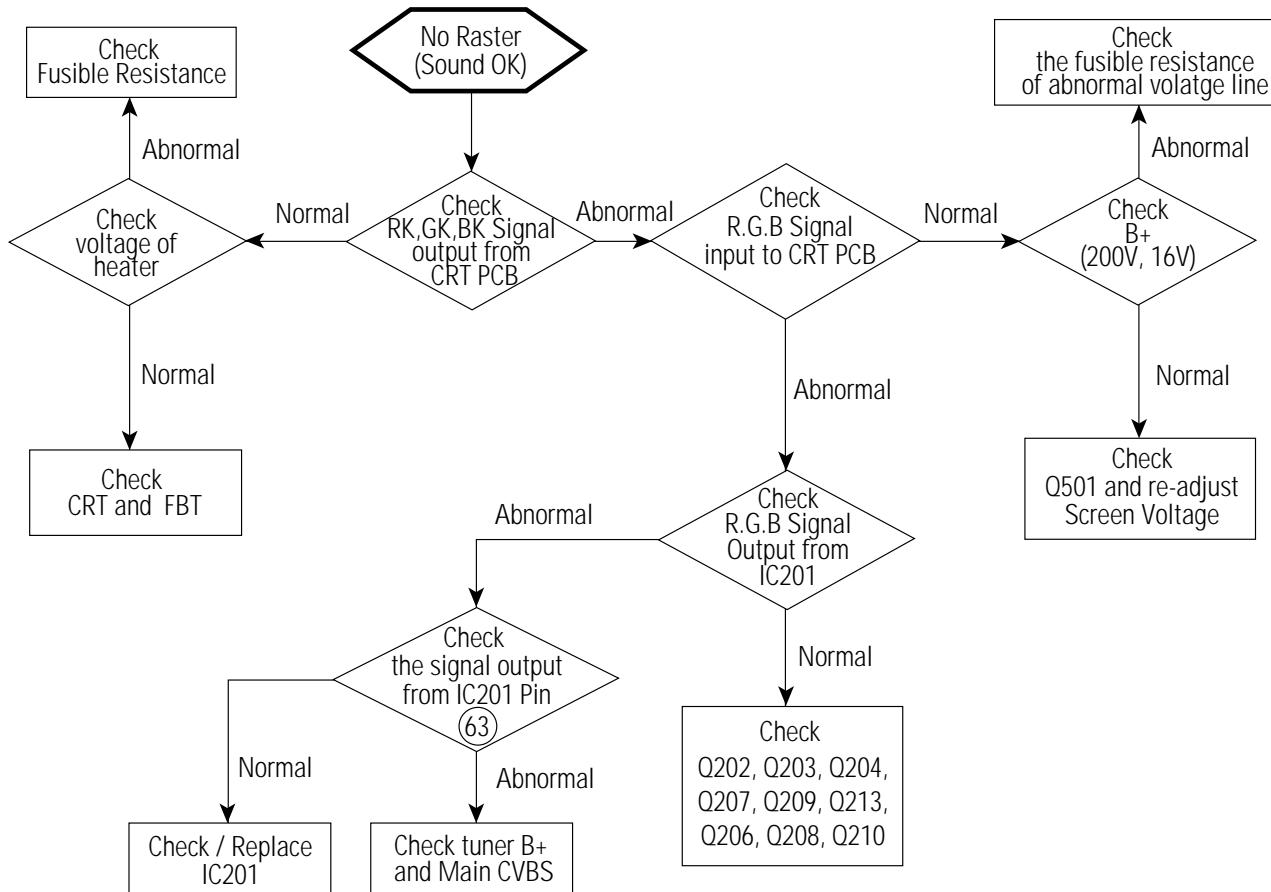
# MEMO

# 5. Troubleshooting

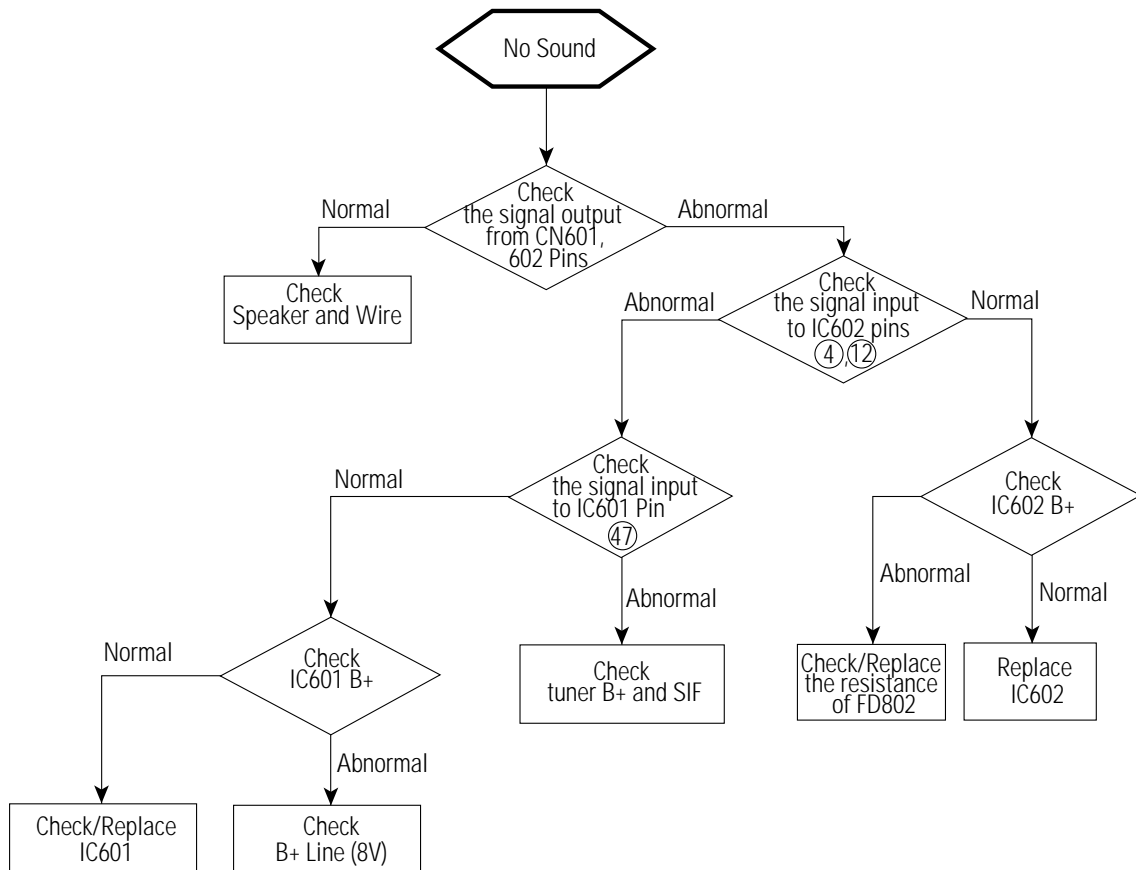
## 5-1 No Power



## 5-2 No Raster (Sound OK)

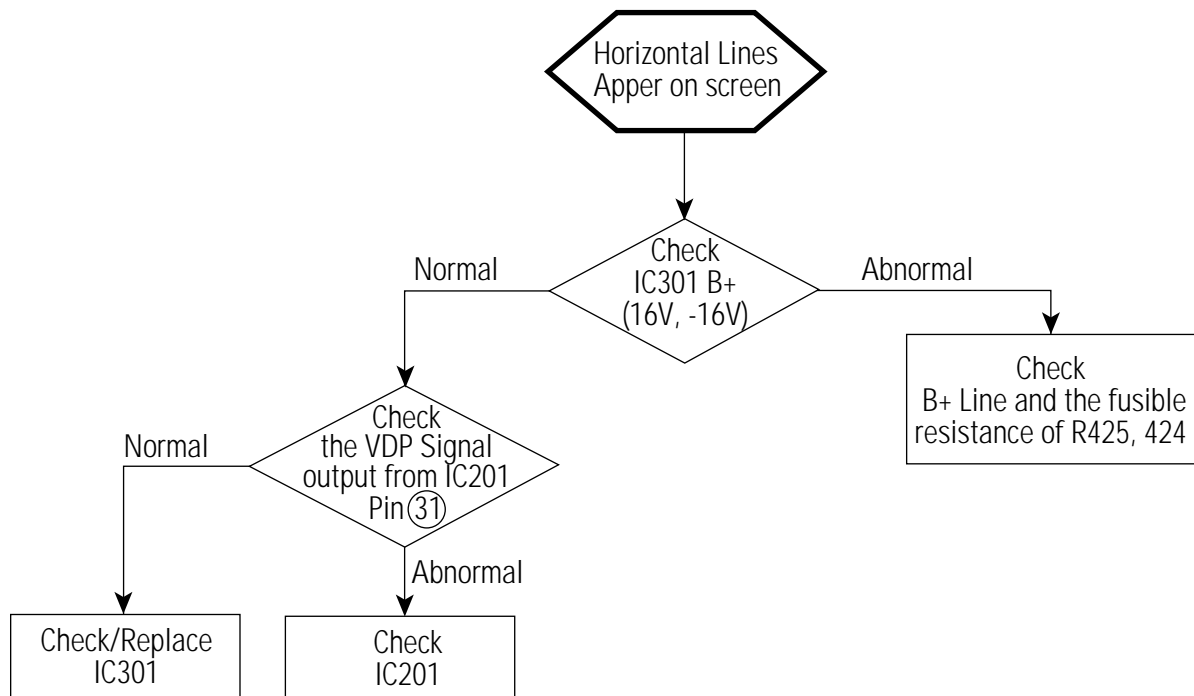


## 5-3 No Sound



## 5-4 Horizontal Lines Appear on screen

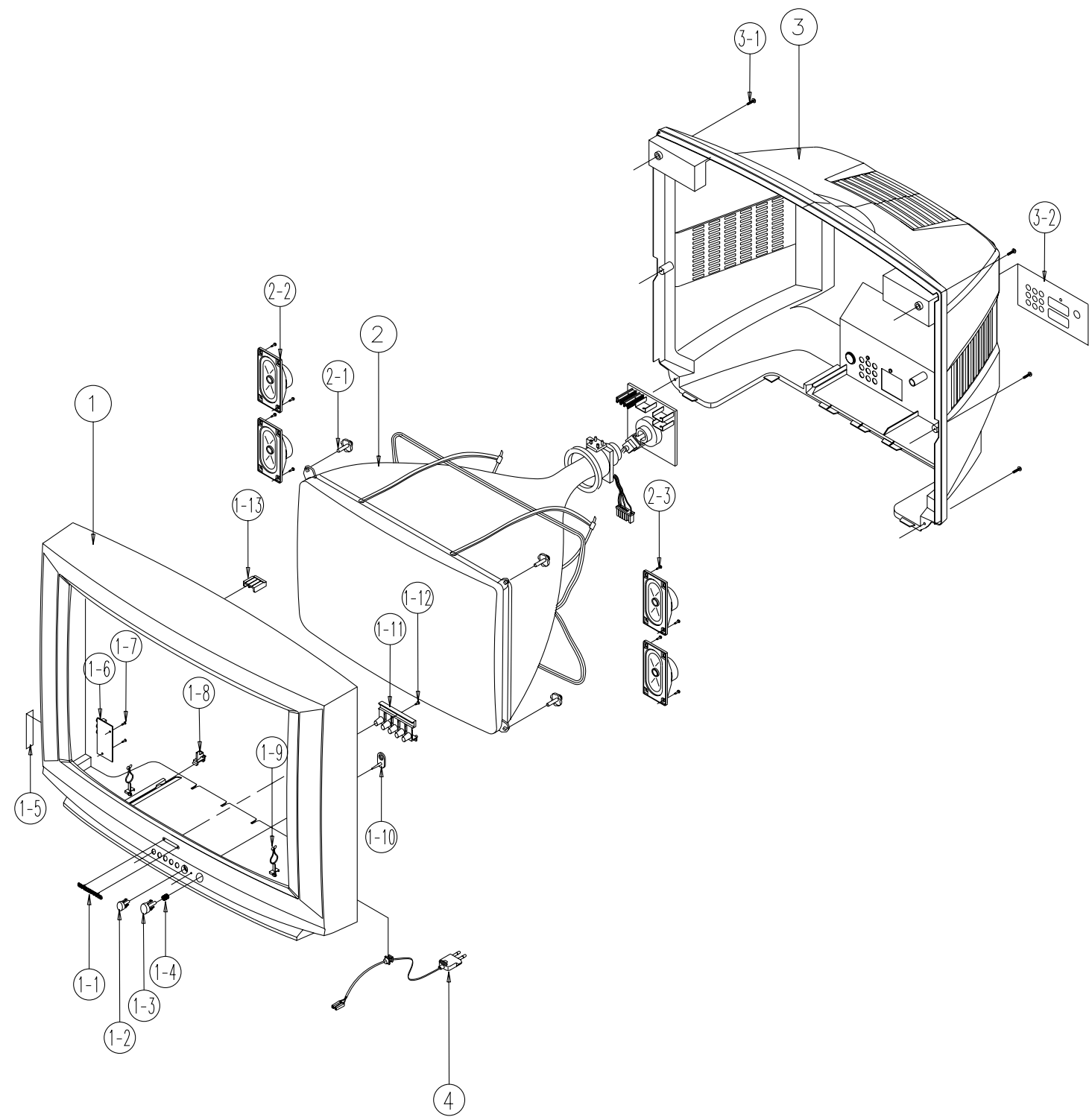
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6. Exploded View & Parts List

6-1 CL765DW7X/DRI



No	Code No	Description	Specification	Q'ty	Remark
1	AA64-00268R	CABINET FRONT	;765D,S704P KS2A SPB,HIPS,H	1	
1-1	AA64-70117B	BADGE-BRAND	;AL,SS,SILVER,L65,R2000,-,-	1	
1-2	AA64-40479B	WINDOW-REMOCON	;765D,-,PC,V0,VIOLET,-	1	
1-3	AA64-10740D	KNOB-POWER	;765D,G3676 NO-SILK,ABS,HB,H	1	
1-4	AA61-60003M	SPRING-CS	;SUS304,0.6,OD11.2,H20,N9,-,-	1	
1-5	AA64-60423Y	INLAY-AV,SIDE	;765D,KS2A SILVER PAL,PS SH	1	
1-6	AA95-00882A	ASSY-PCB, A/V SIDE	;761B,765D,KS2A,-,-,-	1	
1-7	6002-000522	SCREW-TAPPING	;TH,+,2,M4,L15,ZPC(BLK),SWR	2	
1-8	AA61-40113A	STOPPER-PCB	;501H,HIPS,NTR,HB,-,-	1	
1-9	AA65-00011B	CLAMP-WIRE	;ALL MODEL,NYLON 66,V2,NTR,15M	2	
1-10	AA64-40480B	INDICATOR-LED	;765D,-,ACRYL,-,CLR,-	1	
1-11	AA64-10741A	KNOB-CONTROL	;765D,G3676,ABS,HB,HI-GRY	1	
1-12	6003-001026	SCREW-TAPTITE	;RH,+,B,M4,L15,ZPC(BLK),SWR	1	
1-13	AA61-40010A	BOSS-WING	;765D,HIPS,HB,NTR,-,-	1	
2	AA03-00178A	CRT COLOR	;A70QBZ791X001(STB),-,30INCHQ,0	1	
2-1	AA60-10050R	SCREW-ASSY	;WC,HH,+,M5,L31.5,SWRCH18A,ZPC	4	
2-2	3001-000280	SPEAKER	;5W,16ohm,90dB,150Hz	4	
2-3	6003-001026	SCREW-TAPTITE	;RH,+,B,M4,L15,ZPC(BLK),SWR	8	
3	AA64-31180D	CABINET-BACK	;765D,-,HIPS,HB,BLK,-,-	1	
3-1	AA60-10050T	SCREW-TAPPING	;RH,+,2S,M4,L20,ZPC(BLK),SW	7	
3-2	AA64-00892B	INLAY BACK	;D2,D3,RCA9P,PS SHEET,T0.3,BLK	1	

## 7. Electrical Parts List

### 7-1 CL766DW7X/XAP (CL766DW7X/XAP and CL766DW7X/RCL Dissimilar Parts)

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
<b>ASSY-CABINET,(COM)</b>					<b>ASSY-ACCESSORY</b>				
			* AA92-00434AASSY-CABINET,(COM);KS2A,CL765/6,BP					* AA97-00719AASSY-ACCESSORY;KS2A,SELA	
			* AA91-10363E2ASSY-CABINET,FRONT;766,SV704P;HB,KS2A,BP					AA68-01193A MANUAL USERS-,-,ENG,B5,W/P100(G),-,-,-,-	
		AA63-50349B	GRILLE-WOOFER;766D,SECC,PIO.6,SV-704G				AA94-50018D	ASSY-CRT:A70QBZ791X001,+200MG,29ITC	
		AA64-60423Y	INLAY-AV,SIDE:765D,KS2A SILVER PAL,PS SH				AA03-00182A	CRT COLOR:A70QBZ791X001(STB),-,-,30INCHQ,0	
		AA64-01470A	CABINET FRONT;CL766,BP;HIPS,HB,SV704P						

### 7-2 CL766DW7X/XAX (CL766DW7X/RCL and CL766DW7X/XAX Dissimilar Parts)

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
<b>ASSY-PCB,MAIN(OPT)</b>									
			* AA94-02655AASSY-PCB,MAIN(OPT);KS2A,30,CL766DW,SEM						
		AA94-02655A	AASSY-PCB,MAIN(COM);KS2A,30,CL766DW,SEM						
		AA96-20112D	ASSY-POWER,CORD-,-,EP2/NO,N(H/C500MM),KJ1						
		L3000-0001	POWER-CORD,AC;DW-006/MSP-10/SPC-2/2100						
<b>ASSY-CABINET,(COM)</b>									
			* AA92-00435AASSY-CABINET,(COM);KS2A,CL766DW7X,SEM						
			* AA91-10363B3ASSY-CABINET,FRONT;CL766,SV704P;HB+1KS2A						
		AA27-20003V	D-COIL:8.6OHM,40T/L3300						
		AA64-31178D	CABINET-FRONT;766,SV704PPLUS1,HIPS,HB						
		AA64-10740J	KNOB-POWER;765,SV704P;NOSILK,ABS,HB,						
		AA64-10741D	KNOB-CONTROL;765,SV704P;ABS,HB,GRY						
		AA63-50349B	GRILLE-WOOFER;766D,SECC,PIO.6,SV-704G						
		AA64-60423Y	INLAY-AV,SIDE:765D,KS2A SILVER PAL,PS SH						
<b>ASSY-ACCESSORY</b>									
			* AA97-00718AASSY-ACCESSORY;KS2A,SEM						
		AA68-01153A	WARRANTY CARD;SEM&TJ,SPA,212X138,W/P100						
		L6000-0082-020	TARJETADEREGISTRO;8.5X11,80GL,MEX						
		AA68-00501A	MANUAL-SERVICE-,-,-,-,WHT,ALL MEX&TJ.						
<b>ASSY-CRT</b>									
			* AA94-50018CASSY-CRT:A70QBZ791X001,+380MG,29ITC						
		AA03-00184A	CRT COLOR:A70QBZ791X001(STB),-,-,30INCHQ,0						

## 7-3 CL766DW7X/RCL

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
<b>ASSY-PCB,MAIN(OPT)</b>									
			A/MAINAA94-02654AASSY-PCB,MAIN(OPT);KS2A,30,CL766D,LATIN						
O2VER	AA41-00132C	PCB;CT21A8,FR-1,1L,C,1.6T,330x245,			C420	2301-001065	C-FILM,MPPF;47NF,55,630V,TP;19		
	A/MAIN (AIM)	AA94-02654A-AASSY-PCB,MAIN(COM);KS2A,30,CL766D,LATIN			C421	2201-000556	C-CERAMIC,DISC;470PF,10%,500V,		
C/HS	AA65-30105B	CLAMP-WIRE-NYLON 66,V2,NTR,25MM,ALL MODE			C422	2401-001527	C-AL;47UF,20%,250V,HR,13X25MM,		
C102	2401-002463	C-ELECTROLYTIC;CE04WTAPG16V470M-M(SG)-VE			C424	2201-000132	C-CERAMIC,DISC;100PF,10%,500V,Y5P6X3MM,		
C103	2301-000383	C-FILM,PEF;10nF,5%,50V,TP;6x7x3.2mm,5mm			C425	2201-000599	C-CERAMIC,DISC;560PF,10%,500V,		
C104	2401-001363	C-AL;470UF,20%,16V,GP;TP;10X12			C427	2401-002267	C-AL;2.2UF,20%,250V,GP;8X12MM,		
C105	2301-000383	C-FILM,PEF;10nF,5%,50V,TP;6x7x3.2mm,5mm			C429	2301-000232	C-FILM,PEF;3.3NF,5%,50V,8.1X4.		
C106	2401-000603	C-AL;1UF,20%,50V,GP;5X11MM,5MM			C504	2305-000704	C-M,POLYESTER;CFS922MTAPG250V1		
C115	2202-000121	C-CERAMIC,MLC-AXIAL;100PF,10%,			C505	2201-000599	C-CERAMIC,DISC;560PF,10%,500V,		
C116	2202-000121	C-CERAMIC,MLC-AXIAL;100PF,10%,			C506	2305-000704	C-M,POLYESTER;CFS922MTAPG250V1		
C201	2401-001914	C-AL;1uF,20%,50V,BP;TP;5x11,5			C507	2201-000599	C-CERAMIC,DISC;560PF,10%,500V,		
C202	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M			C508	2305-000704	C-M,POLYESTER;CFS922MTAPG250V1		
C203	2305-000665	C-FILM;104J, 60V,5MM TAPING			C509	2201-000599	C-CERAMIC,DISC;560PF,10%,500V,		
C206	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20			C511	2401-000493	C-AL;10UF,20%,50V,WT;5X11MM,5M		
C211	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50			C512	2401-000914	C-AL;22UF,20%,16V,GP;5X11,5,TP		
C212	2301-000224	C-FILM,PEF;22NF,5%,50V,7.4X3.9			C513	2301-000192	C-FILM,PEF;1NF,5%,50V,5.3X10MM		
C213	2301-000247	C-FILM,PEF;33NF,5%,50V,8.1X4.5			C514	2401-000430	C-ELECTROLYTIC;CE04WTAPG250V10		
C214	2305-000665	C-FILM;104J, 60V,5MM TAPING			C515	2401-001232	C-AL;4.7UF,20%,250V,GP;10X12.5		
C215	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M			C516	2201-002063	C-CERAMIC,DISC;10nF,+80-20%,3KV,Y5V,TP;1		
C216	2305-000665	C-FILM;104J, 60V,5MM TAPING			C605	2305-000665	C-FILM;104J, 60V,5MM TAPING		
C217	2401-001026	C-AL;3.3UF,20%,50V,GP;5X11MM,5			C607	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50		
C218	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20			C608	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50		
C219	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20			C609	2401-001840	C-AL;100UF,20%,16V,GP;TP6.3X1		
C220	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20			C610	2301-000314	C-FILM,PEF;8.2NF,5%,50V,6.5X3.		
C221	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20			C611	2301-000314	C-FILM,PEF;8.2NF,5%,50V,6.5X3.		
C222	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20			C612	2401-001914	C-AL;1uF,20%,50V,BP;TP;5x11,5		
C223	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20			C613	2401-001914	C-AL;1uF,20%,50V,BP;TP;5x11,5		
C224	2201-002031	C-CERAMIC,DISC;5pF,0.25pF,50V,NPO,TP;5x3			C617	2401-000493	C-AL;10UF,20%,50V,WT;5X11MM,5M		
C225	2201-002031	C-CERAMIC,DISC;5pF,0.25pF,50V,NPO,TP;5x3			C620	2305-000665	C-FILM;104J, 60V,5MM TAPING		
C226	2305-000665	C-FILM;104J, 60V,5MM TAPING			C621	2401-001998	C-AL;1000UF,20%,25V,GP;TP;10X20		
C228	2301-000356	C-FILM,PEF;47nF,5%,50V,TP;7.5x4.0x6.5,5m			C622	2401-001989	C-AL;4.7uF,20%,50V,BP;TP;5x11,5		
C229	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M			C623	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P.3		
C231	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M			C624	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P.3		
C232	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20			C625	2401-001989	C-AL;4.7uF,20%,50V,BP;TP;5x11,5		
C233	2305-000412	C-FILM,MPEF;470NF,5%,63V,-,5MM			C626	2401-001989	C-AL;4.7uF,20%,50V,BP;TP;5x11,5		
C234	2305-000412	C-FILM,MPEF;470NF,5%,63V,-,5MM			C627	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P.3		
C235	2305-000412	C-FILM,MPEF;470NF,5%,63V,-,5MM			C628	2401-001989	C-AL;4.7uF,20%,50V,BP;TP;5x11,5		
C236	2305-000412	C-FILM,MPEF;470NF,5%,63V,-,5MM			C629	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P.3		
C237	2401-000914	C-AL;22UF,20%,16V,GP;5X11,5,TP			C630	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M		
C239	2401-000603	C-AL;1UF,20%,50V,GP;5X11MM,5MM			C631	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M		
C242	2301-000310	C-FILM,PEF;68NF,5%,50V,8.0X8.5			C632	2202-000806	C-CERAMIC,MLC-AXIAL;220PF,10%,50V,Y5P,TP		
C243	2202-000121	C-CERAMIC,MLC-AXIAL;100PF,10%,			C634	2401-001840	C-AL;100UF,20%,16V,GP;TP6.3X1		
C244	2202-000121	C-CERAMIC,MLC-AXIAL;100PF,10%,			C635	2305-000665	C-FILM;104J, 60V,5MM TAPING		
C245	2202-000121	C-CERAMIC,MLC-AXIAL;100PF,10%,			C636	2401-001026	C-AL;3.3UF,20%,50V,GP;5X11MM,5		
C247	2001-000362	R-CARBON;150OHM,5%,1/8W,AA,TP,			C637	2401-000027	C-AL;4.7UF,20%,50V,GP;5*11MM,5MEA		
C301	2401-000603	C-AL;1UF,20%,50V,GP;5X11MM,5MM			C638	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P.3		
C302	2401-000326	C-AL;100UF,20%,35V,GP;8X11MM,5			C639	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P.3		
C303	2201-002031	C-CERAMIC,DISC;5pF,0.25pF,50V,NPO,TP;5x3			C640	2401-000027	C-AL;4.7UF,20%,50V,GP;5*11MM,5MEA		
C304	2305-000285	C-FILM,MPEF;220NF,5%,100V,-,5M			C641	2401-000027	C-AL;4.7UF,20%,50V,GP;5*11MM,5MEA		
C305	2305-000149	C-FILM;CF922N100VT104-J-40/105			C642	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P.3		
C306	2301-000342	C-FILM,PEF;2.2nF,5%,50V,TP;7.4x3.9x13mm,			C643	2401-000027	C-AL;4.7UF,20%,50V,GP;5*11MM,5MEA		
C307	2401-000360	C-AL;100UF,20%,50V,GP;8X11MM,5			C644	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P.3		
C308	2305-000665	C-FILM;104J, 60V,5MM TAPING			C645	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M		
C401	2201-000556	C-CERAMIC,DISC;470PF,10%,500V,			C646	2305-000665	C-FILM;104J, 60V,5MM TAPING		
C402	2401-001397	C-AL;470UF,20%,25V,GP;10X16MM,			C647	2202-000286	C-CERAMIC,MLC-AXIAL;56PF,5%,50		
C403	2201-000556	C-CERAMIC,DISC;470PF,10%,500V,			C648	2401-001989	C-AL;4.7uF,20%,50V,BP;TP;5x11,5		
C404	2401-001397	C-AL;470UF,20%,25V,GP;10X16MM,			C650	2201-000558	C-CERAMIC,DISC;470PF,10%,50V,Y		
C407	2301-001338	C-FILM,MPE,PPFO.68nF,5%,1.6kV,TP;28x7x1			C652	2401-001840	C-AL;100UF,20%,16V,GP;TP6.3X1		
C408	2305-000382	C-FILM,MPEF;4.7NF,5%,400V,TP,-,5MM.			C654	2202-000286	C-CERAMIC,MLC-AXIAL;56PF,5%,50		
C411	2301-000232	C-FILM,PEF;3.3NF,5%,50V,8.1X4.			C656	2201-000304	C-CERAMIC,DISC;0.001nF,0.25pF,50V,NPO,TP		
C412	2305-000178	C-FILM,MPEF;10NF,5%,100V,-,5MM			C657	2201-000304	C-CERAMIC,DISC;0.001nF,0.25pF,50V,NPO,TP		
C414	2401-002597	C-AL;220uF,20%,35V,GP;TP;10x12.5,5			C660	2401-001840	C-AL;100UF,20%,16V,GP;TP6.3X1		
C415	2305-001023	C-FILM,MPEF;680nF,10%,63V			C701	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P.3		
C416	2301-000356	C-FILM,PEF;47nF,5%,50V,TP;7.5x4.0x6.5,5m			C707	2202-000243	C-CERAMIC,MLC-AXIAL;33PF,5%,50		
C417	2305-000665	C-FILM;104J, 60V,5MM TAPING			C708	2202-000243	C-CERAMIC,MLC-AXIAL;33PF,5%,50		
C418	2401-002597	C-AL;220uF,20%,35V,GP;TP;10x12.5,5			C803	2301-000356	C-FILM,PEF;47nF,5%,50V,TP;7.5x4.0x6.5,5m		
C419	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50			C804	2201-000332	C-CERAMIC,AC;CK45PTAPGE250V222		
					C805	2201-000332	C-CERAMIC,AC;CK45PTAPGE250V222		
					C806	2401-001426	C-AL;470UF,400V		
					C807	2301-001342	C-FILM,PPF;1.5nF,5%,800V,TP;15x6.5x11.5m		
					C808	2401-002300	C-ELECTROLYTIC;CE04WTAPG50V47U		



## Electrical Parts List

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
△	IC804	1203-000284	IC-POSIFIXEDREG.:7806,TO-220,	H/SINK	Q404	0505-000156	FET-SILICON:IRF620,N,200V,5A,0.8ohm,50W,		
△	IC901	AA09-00041A	IC-MCU:SDA555X-OTP,SDA555X-OTP,-,52		Q405	0501-000283	TRANSISTOR:KSA539-Y(TAPG)/YTAM		
△	IC902	1103-001171	IC-EEPROM,24L161,16KBIT,DIP,8P,300MIL,10		Q501	0501-000283	TRANSISTOR:KSA539-Y(TAPG)/YTAM		
△	IC903	1203-001944	IC-POSIFIXEDREG.78RM33,TO-220,3P,PLAST		Q601	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		
△	IC904	1203-001943	IC-VOL.DETECTOR:7025,TO-92,3P,PLASTIC		Q602	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		
	INLA/PCB	AA64-01230B	INLAY-COVER:D2,D3,PVC-SHEET,TO.4,94V0,-,		Q802	0501-000369	TRANSISTOR:KSC2331-Y(TAPG)		
	J111	0401-000005	DIODE:1N4148,100V,300mA,1V,8nS,TAPING		Q901	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		
	J501	2001-000832	R-CARBON:510OHM,5%,1/8W,AA,TP,		Q902	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		
	J699	2701-000168	INDUCTORAXIAL:3.3uH,5%,2.5x3.4mm		Q903	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		
	J909	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm		Q904	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		
	JA701	3722-001333	JACK-RCAP:3.2mm,NL,BLK		Q905	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		
	L102	2701-000159	INDUCTORAXIAL:22uH,10%,4.2x9.8mm		Q906	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		
	L103	2701-000115	INDUCTOR-AXIAL:10UH,10%,2.8X7M		Q907	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		
	L201	2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.		Q908	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		
	L202	2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.		Q909	0505-000109	FET-SILICON:2N7000,N.60V,200mA,5ohm,400		
	L203	3301-000287	CORE-FERRITEBEAD:AA,3.5X1.0X6.		Q910	0505-000109	FET-SILICON:2N7000,N.60V,200mA,5ohm,400		
	L204	2701-000184	INDUCTOR-AXIAL:4.7UH,10%,2.5X3.4MM		Q911	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		
	L207	2701-000168	INDUCTORAXIAL:3.3uH,5%,2.5x3.4mm		R102	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,		
	L208	2701-000168	INDUCTORAXIAL:3.3uH,5%,2.5x3.4mm		R103	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,		
	L209	2701-000168	INDUCTORAXIAL:3.3uH,5%,2.5x3.4mm		R105	2001-000786	R-CARBON:47KOHM,5%,1/8W,AA,TP,		
	L301	2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.		R106	2001-000864	R-CARBON:56Kohm,5%,1/8W,AA,TP,1.8x3.2mm		
	L302	3301-000287	CORE-FERRITEBEAD:AA,3.5X1.0X6.		R201	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,		
	L303	3301-000287	CORE-FERRITEBEAD:AA,3.5X1.0X6.		R202	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,		
	L402	2901-000299	FILTER-EMIBEAD:BL02RN2-R65T2DB		R203	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,		
	L405	AA27-00057A	COIL-HORIZ. WIDTH:-,10mH,YL-9N 15x27.5 C		R204	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,		
	L406	2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.		R205	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,		
	L407	2901-000297	FILTER-EMI ON BOARD:-,3A,-,-,3.5x5,TP,-		R206	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,		
	L408	AA27-00038A	COIL-HORIZ.WIDTH:-,700UH,15X27,-,BK		R207	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP,		
	L601	2701-000169	INDUCTORAXIAL:3.9uH,10%,2.5x3.4mm		R208	2001-000405	R-CARBON:180OHM,5%,1/8W,AA,TP,		
	L602	2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.		R209	2001-000221	R-CARBON:1.2KOHM,5%,1/8W,AA,TP,		
	L603	2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.		R210	2001-000613	R-CARBON:3.9KOHM,5%,1/8W,AA,TP,		
	L604	2701-000169	INDUCTORAXIAL:3.9uH,10%,2.5x3.4mm		R211	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,		
	L605	2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.		R212	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,		
	L606	2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.		R213	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,		
	L607	2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.		R214	2001-000008	R-CARBON:15KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
	L608	2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.		R215	2001-000522	R-CARBON:22KOHM,5%,1/8W,AA,TP,		
	L609	2701-000169	INDUCTORAXIAL:3.9uH,10%,2.5x3.4mm		R216	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm		
	L610	3301-000287	CORE-FERRITEBEAD:AA,3.5X1.0X6.		R222	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm		
	L701	2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.		R223	2001-000628	R-CARBON:300OHM,5%,1/8W,AA,TP,		
	L702	2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.		R224	2001-000628	R-CARBON:300OHM,5%,1/8W,AA,TP,		
	L705	2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.		R225	2001-000628	R-CARBON:300OHM,5%,1/8W,AA,TP,		
	L706	2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.		R226	2001-000628	R-CARBON:300OHM,5%,1/8W,AA,TP,		
	L801	3301-000287	CORE-FERRITEBEAD:AA,3.5X1.0X6.		R228	2001-001170	R-CARBON(S):6.8OHM,5%,1/2W,AB,		
	L802	3301-000287	CORE-FERRITEBEAD:AA,3.5X1.0X6.		R231	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm		
	L803	3301-000287	CORE-FERRITEBEAD:AA,3.5X1.0X6.		R232	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm		
	L804	2901-000297	FILTER-EMI ON BOARD:-,3A,-,-,3.5x5,TP,-		R233	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm		
	L806	3301-000287	CORE-FERRITEBEAD:AA,3.5X1.0X6.		R234	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm		
	L807	2901-000297	FILTER-EMI ON BOARD:-,3A,-,-,3.5x5,TP,-		R235	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm		
	L808	AA27-10004E	COIL-CHOKE:-,40uH,10%,---,RING 19,14		R236	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,		
	L809	3301-000287	CORE-FERRITEBEAD:AA,3.5X1.0X6.		R237	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,		
	L901	2901-000299	FILTER-EMIBEAD:BL02RN2-R65T2DB		R238	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,		
	L903	2901-000299	FILTER-EMIBEAD:BL02RN2-R65T2DB		R239	2001-001114	R-CARBON(S):270OHM,5%,1/2W,AA,		
	L904	2901-000299	FILTER-EMIBEAD:BL02RN2-R65T2DB		R241	2001-000343	R-CARBON:130OHM,5%,1/8W,AA,TP,1.8X3.2MM		
	L905	2001-000995	R-CARBON:820OHM,5%,1/8W,AA,TP,		R245	2001-000005	R-CARBON:390OHM,5%,1/8W,AA,TP,		
	L906	2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.		R246	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,		
	LD901	AA96-30006A	ASSY-LED,GUIDE:-,SL255D,RED/GRN		R248	2001-000969	R-CARBON:75OHM,5%,1/8W,AA,TP,1		
△	LR401S	AA27-00111A	COILLINEARITY:35uH,DR14x15,11mm		R249	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,		
△	LX801S	AA29-30002F	FILTER-LINENOISE:-,6MH,2.45A,-		R250	2001-000005	R-CARBON:390OHM,5%,1/8W,AA,TP,		
△	NT802S	1404-001045	THERMISTOR NTC:4.7OHM,15%,2900K,35.0MW,T		R251	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,		
△	P801S	1404-000002	THERMISTOR NTC,90HM,20%,TR,AC290VRMS,120		R252	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm		
△	PC801S	0604-001038	PHOTOCOUPLER:TR,130-260%,200MW		R253	2001-000969	R-CARBON:75OHM,5%,1/8W,AA,TP,1		
	PWR/AC	AA96-20109C	ASSY PWR-CORD:CP2/NO(4.0)H/C300,KKP419C,		R254	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,		
	Q201	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		R255	2001-000005	R-CARBON:390OHM,5%,1/8W,AA,TP,		
	Q202	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		R256	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,		
	Q203	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		R258	2001-000969	R-CARBON:75OHM,5%,1/8W,AA,TP,1		
	Q204	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		R259	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,		
	Q206	0501-000283	TRANSISTOR:KSA539-Y(TAPG)/YTAM		R260	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,		
	Q207	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		R261	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,		
	Q208	0501-000283	TRANSISTOR:KSA539-Y(TAPG)/YTAM		R262	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,		
	Q209	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		R263	2001-000786	R-CARBON:47KOHM,5%,1/8W,AA,TP,		
	Q210	0501-000283	TRANSISTOR:KSA539-Y(TAPG)/YTAM		R264	2001-000003	R-CARBON:330OHM,5%,1/8W,AA,TP,		
	Q211	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		R265	2001-000003	R-CARBON:330OHM,5%,1/8W,AA,TP,		
	Q212	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		R267	2001-000003	R-CARBON:330OHM,5%,1/8W,AA,TP,		
	Q213	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		R301	2004-001397	R-METAL(S):4.7KOHM,1%,1/2W,AA,		
	Q222	0501-000389	TRANSISTOR:KSC815-Y(TAPG)/YTAM		R302	2004-001984	R-METAL:26.7KOHM,1%,1/2W,AA,TP		
	Q402	0502-001007	TR-POWER:KSC2073-H2,NPN,150V,1		R303	2001-000016	R-CARBON(S):10HM,5%,1/2W,AA,TP		

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
R304		2003-002014	R-METALOXIDE(S):0.60HM,5%,2W,A		R614		2001-000780	R-CARBON:470ohm,5%,1/8W,AA,TP1.8x3.2mm	
R305		2008-001107	R-FUSIBLE(S):300ohm,5%,2W,AG,TP,3.9x12mm		R615		2001-000780	R-CARBON:470ohm,5%,1/8W,AA,TP1.8x3.2mm	
R306		2008-001107	R-FUSIBLE(S):300ohm,5%,2W,AG,TP,3.9x12mm		R616		2001-000780	R-CARBON:470ohm,5%,1/8W,AA,TP1.8x3.2mm	
R309		2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,		R617		2001-000780	R-CARBON:470ohm,5%,1/8W,AA,TP1.8x3.2mm	
R310		2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,		R619		2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,	
R313		2001-000890	R-CARBON:6.8KOHM,5%,1/8W,AA,TP		R620		2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,	
R314		2004-001986	R-METAL:35.7KOHM,1%,1/2W,AA,TP		R621		2001-000007	R-CARBON:3KOHM,5%,1/8W,AA,TP,1	
R315		2004-004970	R-METAL(S):62Kohm,1%,1/8W,AA,TP,1.8x3.2m		R622		2001-000007	R-CARBON:3KOHM,5%,1/8W,AA,TP,1	
R401		2003-002186	R-METALOXIDE(S):22Kohm,5%,2W,AG,TP,3x		R623		2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,	
R402		2003-002186	R-METALOXIDE(S):22Kohm,5%,2W,AG,TP,3x		R624		2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP	
R403		2003-002037	R-METAL OXIDE(S):270OHM,5%,2W,AF,TP,3.9X		R625		2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R405		2008-001018	R-FUSIBLE(S):0.47OHM,10%,2W,AF		R626		2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP	
R407		2001-000066	R-CARBON(S):10KOHM,5%,1/2W,AA,		R701		2001-000969	R-CARBON:75OHM,5%,1/8W,AA,TP,1	
R408		2008-000284	R-FUSIBLE(S):0.1OHM,10%,2W,AF,TP,3.9X10M		R702		2001-000969	R-CARBON:75OHM,5%,1/8W,AA,TP,1	
R409		2001-001140	R-CARBON(S):39OHM,5%,1/2W,AA,T		R703		2001-000969	R-CARBON:75OHM,5%,1/8W,AA,TP,1	
R410		2001-001114	R-CARBON(S):270OHM,5%,1/2W,AA,		R704		2001-000969	R-CARBON:75OHM,5%,1/8W,AA,TP,1	
R411		2001-000028	R-CARBON(S):100OHM,5%,1/2W,AB,		R705		2001-000969	R-CARBON:75OHM,5%,1/8W,AA,TP,1	
R412		2001-000020	R-CARBON(S):22OHM,5%,1/2W,AA,T		R706		2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,	
R413		2008-001018	R-FUSIBLE(S):0.47OHM,10%,2W,AF		R707		2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,	
R415		2004-001983	R-METAL:2.49KOHM,1%,1/2W,AA,TP,2.4X6.4		R708		2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,	
R417		2004-001893	R-METAL(S):22KOHM,1%,1/2W,AA,T		R709		2001-000938	R-CARBON :68ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R418		2001-001088	R-CARBON(S):1KOHM,5%,1/2W,AA,TP,2.4X6.4		R710		2001-000938	R-CARBON :68ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R420		2001-001168	R-CARBON(S):6.8KOHM,5%,1/2W,AB		R715		2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,	
R421		2001-001144	R-CARBON(S):4.7KOHM,5%,1/2W,AA,TP,2.4X6.		R716		2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,	
R424		2008-001018	R-FUSIBLE(S):0.47OHM,10%,2W,AF		R719		2001-000969	R-CARBON:75OHM,5%,1/8W,AA,TP,1	
R425		2008-001018	R-FUSIBLE(S):0.47OHM,10%,2W,AF		R723		2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,	
R426		2003-000540	R-METALOXIDE(S):1KOHM,5%,2W,AD		R730		2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,	
R427		2001-001150	R-CARBON(S):47KOHM,5%,1/2W,AA		R731		2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,	
R428		2001-001052	R-CARBON(S):1.5MOHM,5%,1/2W,AA,TP,2.4X6.		R802		2003-001025	R-METALOXIDE(S):15KOHM,5%,2W,A	
R429		2004-001397	R-METAL(S):4.7KOHM,1%,1/2W,AA,		R803		2003-001025	R-METALOXIDE(S):15KOHM,5%,2W,A	
R432		2004-001397	R-METAL(S):4.7KOHM,1%,1/2W,AA,		R804		2003-001025	R-METALOXIDE(S):15KOHM,5%,2W,A	
R433		2008-001127	R-FUSIBLE(S):6.8Kohm,5%,1W,AF,TP,3.9x10m		R805		2001-001150	R-CARBON(S):470KOHM,5%,1/2W,AA	
R434		2003-000664	R-METAL OXIDE(S):330HM,5%,2W,AF,TP,4X12M		R806		2001-001150	R-CARBON(S):470KOHM,5%,1/2W,AA	
R436		2003-002151	R-METALOXIDE:18KOHM,5%,2W,AG,TP,6X16		R807		2003-000746	R-METALOXIDE(S):56OHM,5%,2W,AD	
R437		2001-001164	R-CARBON(S):56KOHM,5%,1/2W,AA,		R808		2003-000746	R-METALOXIDE(S):56OHM,5%,2W,AD	
R438		2001-001191	R-CARBON(S):820KOHM,5%,1/2W,AB		R809		2001-000022	R-CARBON(S):330HM,5%,1/2W,AA,T	
R440		2001-000085	R-CARBON(S):100KOHM,5%,1/2W,AA		R810		2001-001178	R-CARBON(S):680OHM,5%,1/2W,AA,	
R441		2001-001144	R-CARBON(S):4.7KOHM,5%,1/2W,AA,TP,2.4X6.		R811		2001-001135	R-CARBON(S):36KOHM,5%,1/2W,AA,	
R501		2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP1.8x3.2mm		R812		2001-000780	R-CARBON:470ohm,5%,1/8W,AA,TP1.8x3.2mm	
R502		2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP1.8x3.2mm		R813		2001-001153	R-CARBON(S):47OHM,5%,1/2W,AA,T	
R503		2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP1.8x3.2mm		R816		2001-001088	R-CARBON(S):1KOHM,5%,1/2W,AA,TP,2.4X6.4	
R504		2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP		R817		2001-001088	R-CARBON(S):1KOHM,5%,1/2W,AA,TP,2.4X6.4	
R505		2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP		R818		2001-001113	R-CARBON(S):270KOHM,5%,1/2W,AA	
R506		2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP		R819		2004-001983	R-METAL:2.49KOHM,1%,1/2W,AA,TP,2.4X6.4	
R507		2001-000085	R-CARBON(S):100KOHM,5%,1/2W,AA		R821		2004-001891	R-METAL(S):133KOHM,1%,1/2W,AA,	
R508		2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,		R822		2001-000273	R-CARBON:100KOHM,5%,1/8W,AA,TP	
R509		2002-001017	R-COMPOSITION:1K,10%,1/2W,AA,TP,3.7x9.0m		R823		2001-000273	R-CARBON:100KOHM,5%,1/8W,AA,TP	
R510		2001-000085	R-CARBON(S):100KOHM,5%,1/2W,AA		R824		2001-000522	R-CARBON:22KOHM,5%,1/8W,AA,TP	
R511		2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,		R825		2001-000066	R-CARBON(S):10KOHM,5%,1/2W,AA,	
R513		2001-000085	R-CARBON(S):100KOHM,5%,1/2W,AA		R826		2001-001072	R-CARBON(S):12ohm,5%,1/2W,AA,TP,2.4x6.4m	
R514		2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,		R827		2008-000284	R-FUSIBLE(S):0.1OHM,10%,2W,AF,TP,3.9X10M	
R515		2002-001017	R-COMPOSITION:1K,10%,1/2W,AA,TP,3.7x9.0m		R828		2008-000266	R-FUSIBLE(S):1OHM,5%,2W,AF,TP,	
R517		2001-001077	R-CARBON(S):150OHM,5%,1/2W,AA,		R829		2003-001036	R-METALOXIDE(S):3.3OHM,5%,2W,A	
R518		2001-001185	R-CARBON(S):750OHM,5%,1/2W,AA,TP,2.4X6.4		R831		2001-000780	R-CARBON:470ohm,5%,1/8W,AA,TP1.8x3.2mm	
R519		2001-000864	R-CARBON:56Kohm,5%,1/8W,AA,TP1.8x3.2mm		R832		2001-001153	R-CARBON(S):47OHM,5%,1/2W,AA,T	
R520		2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP		R833		2001-000472	R-CARBON:2.7KOHM,5%,1/8W,AA,TP	
R521		2001-000832	R-CARBON:510OHM,5%,1/8W,AA,TP,		R835		2003-002181	R-METAL OXIDE(S):68Kohm,5%,2W,AG,TP,3.9x	
R522		2008-000266	R-FUSIBLE(S):1OHM,5%,2W,AF,TP,		R836		2003-002181	R-METAL OXIDE(S):68Kohm,5%,2W,AG,TP,3.9x	
R523		2008-000266	R-FUSIBLE(S):1OHM,5%,2W,AF,TP,		R901		2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP	
R524		2008-000299	R-FUSIBLE:RF2RT470-J		R902		2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,	
R525		2001-001062	R-CARBON(S):10MOHM,5%,1/2W,AA,		R903		2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP	
R526		2002-001009	R-COMPOSITION:2.7KOHM,10%,1/2W,AA,TP,3.7		R904		2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP	
R527M		2002-001017	R-COMPOSITION:1K,10%,1/2W,AA,TP,3.7x9.0m		R905		2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP	
R529		0403-001316	DIODE-ZENER:MTZJ3.0A,2.85-3.07V,500mW,DO		R906		2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP	
R601		2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,		R907		2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,	
R602		2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,		R908		2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP	
R603		2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP1.8x3.2mm		R909		2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,	
R604		2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.		R910		2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP1.8x3.2mm	
R605		2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.		R911		2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP1.8x3.2mm	
R606		2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,		R912		2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP1.8x3.2mm	
R607		2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP1.8x3.2mm		R913		2001-000947	R-CARBON:7.5KOHM,5%,1/8W,AA,TP	
R608		2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP1.8x3.2mm		R914		2001-000221	R-CARBON:1.2KOHM,5%,1/8W,AA,TP	
R609		2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,		R915		2001-000577	R-CARBON:2KOHM,5%,1/8W,AA,TP,1	
R610		2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,		R916		2001-000007	R-CARBON:3KOHM,5%,1/8W,AA,TP,1	
R611		2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,		R917		2001-000878	R-CARBON:6.2KOHM,5%,1/8W,AA,TP	
R612		2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,		R918		2001-000009	R-CARBON:20KOHM,5%,1/8W,AA,TP,	
R613		2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,		R919		2001-000780	R-CARBON:470ohm,5%,1/8W,AA,TP1.8x3.2mm	

## ASSY ACCESSORY

## ASSY-CRT

Level	Loc. No.	Code No.	Description ; Specification	Remark
<b>ASSY-CABINET,(COM)</b>				
A/BACK	AA92-00433A	ASSY-CABINET,(COM);KS2A,CL766DW7,BP.		
AC+BC	AA65-30008A	CLAMP-CORD;-;PE,HB,BLK,-,-		
B/C	AA64-31161A	CABINET BACK;765D,HIPS,HB,BLK		
CB+CF	6002-000514	SCREW-TAPPING;RH,+,2,M4,L15,ZP		
FBT	AA65-30109A	CLAMP-FBT;NYLON-66,V2,BLK,-,-,-		
H/T	AA61-00356B	HOLDER-TUNER,F/JACK;-;501F,ABS,HB,BLK,-		
INLAYB	AA64-00892B	INLAY BACK-D2,D3,CA9PPS SHEET,TO.3,BLK		
RCA+CB	6002-000514	SCREW-TAPPING;RH,+,2,M4,L15,ZP		
SPCBC	AA63-60001X	SPACER-FELT;-;FELT,TO.5,-,330X		
<b>ASSY-PCB,A/V</b>				
A/A-V	AA98-00083A	ASSY-PCB,A/V;SIDE,KS2A,CL766/TXK2890		
OOVER	AA41-00321A	PCB-AV SIDE;CL765D,FR-1,1LA,1.6T,245x24		
A/AV	AA95-00761A	ASSY-PCB,A/V SIDE, KS2A		
CA02	2202-000121	C-CERAMIC,MLC-AXIAL;100PF,10%,		
CA03	2202-000121	C-CERAMIC,MLC-AXIAL;100PF,10%,		
CA04	2202-000720	C-CERAMIC,MLC-AXIAL;8.2nf,20%,16V,Y5R,TP		
CA05	2202-000720	C-CERAMIC,MLC-AXIAL;8.2nf,20%,16V,Y5R,TP		
CA06	2401-001840	C-AL;100UF,20%,16V,GP,TP6.3X1		
CA07	2401-001840	C-AL;100UF,20%,16V,GP,TP6.3X1		
CN05A	AA39-20069A	LEAD-CONNECTOR,ASSY;-;YBNH025-		
CNA01	AA39-20068G	LEAD CONNECTOR-ASSY;-;YBNH025-08,67096-0		
JE01	3722-000143	JACK-PHONE;1P;3.4MM,-,MBAG		
JR01	3722-001031	JACK-RCA;3P;3.6MM,#18,AU		
LA02	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.		
LA03	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.		
LA04	2701-000180	INDUCTOR-AXIAL;33UH,5%,2.5X3.4		
LA05	2701-000180	INDUCTOR-AXIAL;33UH,5%,2.5X3.4		
RA01	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AB,		
RA02	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AB,		
<b>REMOCON</b>				
RMT	AA59-10113F	REMOCON;DPTM59,-,-,-,-,-,AA59-10110F,		
<b>ASSY-CABINET,FRONT</b>				
A/FRNT	AA92-00540A	ASSY-CABINET,FRONT;KS2A,HB,SV808P,CL766		
AV+CF	6002-000514	SCREW-TAPPING;RH,+,2,M4,L15,ZP		
BADGE	AA64-70117B	BADGE-BRAND;AL,SS,R2000,25,SILVER CT-633		
BOSS	AA65-30105A	CLAMP-WIRE;NYLON 66N,VO,NTR,15MM		
CDCOIL	AA65-30004A	CLAMP-D.COIL;-;NYLON-66,V0,WHT		
CRT+CF	AA60-10050R	SCREW-ASSY;WC,HH,+,M5,L31.5,SWR		
CWFC	AA65-30105A	CLAMP-WIRE;NYLON 66N,VO,NTR,15MM		
D-COIL	AA27-20003M	COIL-DEGAUSSING;-;29,140HM,70		
DRESB	AA65-30018A	CLAMP-WIRE;-;NYLON6.6,-,-,DATL		
DRESPK	AA65-30018A	CLAMP-WIRE;-;NYLON6.6,-,-,DATL		
F/C	AA64-01498A	CABINET-FRONT;CT766,SV808P,BP,HB		
IL	AA64-040480A	INDICATOR LED;ACRYL,HB,CLR		
IN/AV	AA64-60423R	INLAY-AV;761B,K51,NIT-PAL,PS,SHEET,TO.3,B		
IND+CF	6002-000514	SCREW-TAPPING;RH,+,2,M4,L15,ZP		
KC	AA64-10741A	KNOB CONTROL;ABS,HB GRAY		
KC+CF	6002-000514	SCREW-TAPPING;RH,+,2,M4,L15,ZP		
KP	AA64-10740D	KNOB-POWER;-;765D,G3676 NO-SILK,ABS,HB,H		
L/SPK	AA39-20505B	LEADCONNECTOR-ASSY;-;YSH025-04,REC,4P,60		
SPK	3001-001092	SPEAKER;10W/80HM,87DB+2DB,150HZ		
SPK+CF	6002-000514	SCREW-TAPPING;RH,+,2,M4,L15,ZP		
SPRING	AA61-60003M	SPRINGCS;-;SUS304,0.60D11.2,		
STOPPER	AA61-40113A	STOPPER-PCB;-ABS,HB,NTR.		
WR	AA64-04479A	WINDOW REMOTE-PC VIOLET		

**ASSY-CABINET,(COM)**

A/BACK	AA92-00433A	ASSY-CABINET,(COM):KS2A,CL766DW7,BP.
AC+BC	AA65-30008A	CLAMP-CORD,-PE,HB,BLK,-,-
B/C	AA64-31161A	CABINET BACK:765D,HIPS,HB,BLK
CB+CF	6002-000514	SCREW-TAPPING:RH,+2,M4,L15,ZP
FBT	AA65-30109A	CLAMP-FBT:NYLON-66,V2,BLK,-,-,-
H/T	AA61-00356B	HOLDER-TUNER,F/JACK,-,501FABS,HB,BLK,-
INLAYB	AA64-00892B	INLAY BACK:D2,D3,RC9A9P5 SHEET,TO,3,BLK
RCA+CB	6002-000514	SCREW-TAPPING:RH,+2,M4,L15,ZP
SPCB	AA63-60001X	SPACER-VELT:-FELT,TO:5-330X

**ASSY-PCB,A/V**

A/A-V	AA98-00083A	ASSY-PCB,A/V/SIDE,KS2A,CL766/TKX2890
00VER	AA41-00321A	PCB-AV SIDE;CL766DF,FR-1,1LA,1.6T,245x24
A/AV	AA95-00761A	ASSY-PCB,A/V SIDE, KS2A
CA02	2202-000121	C-CERAMIC,MLC-AXIAL:100PF,10%,
CA03	2202-000121	C-CERAMIC,MLC-AXIAL:100PF,10%,
CA04	2202-000720	C-CERAMIC,MLC-AXIAL-8.2nf,20%,16V,Y5R,TP
CA05	2202-000720	C-CERAMIC,MLC-AXIAL-8.2nf,20%,16V,Y5R,TP
CA06	2401-001840	C-AL:100UF,20%,16V,GP,TP6.3X1
CA07	2401-001840	C-AL:100UF,20%,16V,GP,TP6.3X1
CN05A	AA39-20069A	LEAD-CONNECTOR,ASSY:-YBNH025-
CNA01	AA39-20068G	LEAD CONNECTOR-ASSY:-YBNH025-08,67096-0
JE01	3722-000143	JACK-PHONE:1P3.4MM,-,MBAG
JR01	3722-001031	JACK-RCA:3P3.6MM,#18,AU
LA02	2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.
LA03	2701-000114	INDUCTOR-AXIAL:10UH,10%,2.5X3.
LA04	2701-000180	INDUCTOR-AXIAL:33UH,5%,2.5X3.4
LA05	2701-000180	INDUCTOR-AXIAL:33UH,5%,2.5X3.4
RA01	2001-000028	R-CARBON(S):100OHM,5%,1/2W,AB,
RA02	2001-000028	R-CARBON(S):100HM,5%,1/2W,AB,

## REMOCON

RMT AA59-10113F REMOCON:DP, TM59, AA59-10110F.

## ASSY-CABINET,FRONT

AF/FRNT	AA92-00540A	ASSY-CABINET,FRONT:KS2A,HB,SV808P,CL766
AV+CF	6002-000514	SCREW-TAPPING:RH,+2,M4,L15,ZP
BADGE	AA64-70117B	BADGE-BRAND:AL,SS,R2000,25,SILVER CT-633
BOSS	L3113-0003-000	BOSS-CABINET:HIPSBBBLK
CDCOIL	AA65-30004A	CLAMP-D,COIL:-- ,NYLON-66,V0,WHT
CR+CF	AA60-10050R	SCREW-ASSY:WC,HH,+M5,L31,5,SWR
CWFC	AA65-30105A	CLAMP-WIRE:NYLON 66N,VO,NTR,15MM
D-COIL	AA27-20003M	COIL-DEGAUSSING:-,29,140HM,70
DRESB	AA65-30018A	CLAMP-WIRE:-,NYLON6.6,-,-,DATL
DRESPK	AA65-30018A	CLAMP-WIRE:-,NYLON6.6,-,-,DATL
F/C	AA64-01498A	CABINET-FRONT:CT766,SV808P,BP:HB
IL	AA64-40480A	INDICATOR LED:ACRYL,HB,CLR
IN/AV	AA64-60423R	INLAY-AY:761B,K51,NTR-PAL,PS,SHEET,TO,3,B
IND+CF	6002-000514	SCREW-TAPPING:RH,+2,M4,L15,ZP
KC	AA64-10741A	KNOB CONTROL:ABS,HB GRAY
KC+CF	6002-000514	SCREW-TAPPING:RH,+2,M4,L15,ZP
KP	AA64-10740D	KNOB-POWER:-,765D,G3676 NO-SILK,ABS,HB,GR
L/SPK	AA39-20505B	LEAD-CONTRACTOR-ASSY:-,YSH025-04,REC,4P60
SPK	3001-001092	SPEAKER:10W,80HM,87DB+2DB,150HZ
SPK+CF	6002-000514	SCREW-TAPPING:RH,+2,M4,L15,ZP
SPRING	AA61-60003M	SPRINGS:-,,-,SUS304,0.60D11,2,
STOPPER	AA61-40113A	STOPPER-PCB:-ABS,HB,NTR,
WR	AA64-40479A	WINDOW REMOTE-PCB VIOLET

## 7-4 CL765DW7X/DRI

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
<b>ASSY PCB MAIN(OPT)</b>									
1		* AA94-02781G ASSY PCB MAIN(OPT);CL765DW7X/DRI,KS2A,UR			...	L405	AA27-00096A	COIL HORIZ. WIDTH:-,10.0mH,DR15 X 27.5,U	
..2	CN501B	AA39-20054B	LEAD CONNECTOR-ASSY;-YBNH025-06,S,6P,50		...	L408	AA27-00097A	COIL HORIZ. WIDTH:-,700uH,DR15 X 27.5,US	
..2	CN502B	AA39-20053A	LEAD CONNECTOR-ASSY;-YBNH025-05,S,5P,40		...	L808	AA27-00098A	COIL CHOKE:-,24uH,10%;-,0.1,3.0A,DR10X	
..2	CR404S	2301-001193	C-FILM,MPPF;1uF,5%,400V,TP;31x17x25,20		...	LD901	AA96-00461A	ASSY LED GUIDE:-,SL-255D,RED/GRN	
△..2	DDR01	AA96-00469F	ASSY H/S;-REGULATOR,AA62-00053B,D10U60		△..3	LR401S	AA27-00111A	COIL LINEARITY;35uH,35uH,DR14x15,11mm,18	
...		AA62-00053B	HEAT SINK:DREAM (D2,D3),AL.,T1.0,147,50,	S.N.A	△..3	LX801S	AA29-30002F	FILTER-LINE NOISE:-,6mH,2.45A,-,-	
...		6003-000334	SCREW-TAPTITE;RH,+2S,M3,L6,ZPC(YEL),SWR	S.N.A	△..3	NT802S	1404-001045	THERMISTOR-NTC;4.70HM,15%,2900K,35.0MW,T	
...		1203-002018	IC-VOLTAGE REGULATOR;78R05,TO-220,4P,10M		△..3	P801S	1404-000002	THERMISTOR-PTC;9ohm,20%;-,TR,RECT,-	
...		0402-001375	DIODE-RECTIFIER;FFP10U20S,200V,10A,TO-2		△..3	PC801S	0604-001032	PHOTO-COUPLER;TR,170-260%,300mW,DIP-4,ST	
...		0402-001358	DIODE-RECTIFIER;FFP10U60S,600V,10A,TO-2		△..3	RL801S	3501-001040	RELAY-POWER;12VDC,500mV,10A,1FormA,15mS,	
...		0205-000129	GREASE-SILICON;SC102,JAPAN	S.N.A	...	RM901	AA59-60001U	MODULE-REMIOCON;-ORC-50VF/SR-12V,38KHz,9	
△..2	DH01	AA96-00275A	ASSY H/S;-COMPLEX,AA62-00051A,KSD5703,		△..3	SW801S	3403-000179	SWITCH-PUSH;250V,5A,DPST,-JPW-2104B	
...		6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW	S.N.A	△..3	T401	AA26-50001R	TRANS-HORIZ.DRIVE:-,80MH,520UH,4UH,G11A	
...		AA60-30001A	WASHER-PLATE;M3,ID3.5,15X8.5,T1.0,-,SBHG	S.N.A	△..3	TU01S	AA40-00027A	TUNER-F/S;TCPN3081PD09A(S),PAL,TR,181CH,	
...		AA62-00051A	HEAT SINK-PS;-,-,SILVER,HOLE 31mm,ALL,	S.N.A	△..3	V999S	3704-001105	SOCKET-CRT;11P,20PI,26.5PI,NI,-	
...		0502-001136	TR-POWER;KSD5703,NPN,70W,TO-3PF,ST,8-		...		AA99-10195P	ASSY-PCB MAIN,AUTO; AA99-30200K ,V	S.N.A
...		0402-001296	DIODE-RECTIFIER;FMP-3FU,1.5KV,5A,TO-3PF,		...	C102	2401-002463	C-AL;470uF,20%,16V,GP;TP8x11.5,5	
...		0205-000129	GREASE-SILICON;SC102,JAPAN	S.N.A	...	C103	2301-000383	C-FILM,PEF;10nF,5%,50V,TP;6x7x3.2mm,5mm	
△..2	IC602	AA96-50398A	ASSY-H/S;-,-AA62-30182E,TDA7297,-		...	C104	2401-001363	C-AL;470uF,20%,16V,GP;TP10x12.5,5	
...		0205-000129	GREASE-SILICON;SC102,JAPAN	S.N.A	...	C105	2301-000383	C-FILM,PEF;10nF,5%,50V,TP;6x7x3.2mm,5mm	
...		1201-001064	IC-POWER AMP;T297,ZIP15P,-,DUAL,32DB,PL		...	C106	2401-000603	C-AL;1uF,20%,50V,GP;TP5x11,5	
...		6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW	S.N.A	...	C115	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
...		AA62-30182E	HEAT SINK-ES;-A6063 EXTR,-,WHT,-,-,40	S.N.A	...	C116	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
△..2	IC801S	AA96-50373C	ASSY-H/S;-,-AA62-30181K,KA3S1265R,-		...	C201	2401-000553	C-AL;1uF,10%,50V,GP;TP5x11,5	
...		AA62-30181K	HEAT SINK-ES;-AL6063 EXTR,-,2,WHT,40MM,-	S.N.A	...	C202	2401-002235	C-AL;10uF,20%,16V,GP;TP5x11mm,5mm	
...		AA61-10386A	BRACKET;HC;-SECC 100,T1.0,-,KA2S0680,	S.N.A	...	C203	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP;7.5x4.0x5.0m	
...		6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW	S.N.A	...	C206	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
...		1203-001482	IC-PWM CONTROLLER;3S1265R,TO-3PSP,210,P		...	C211	2202-000796	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3	
...		0205-000129	GREASE-SILICON;SC102,JAPAN	S.N.A	...	C212	2301-000224	C-FILM,PEF;22nF,5%,50V,TP;7.4x3.9x13mm,5	
△..2	IC804	AA96-00243C	ASSY H/S;-REGULATOR,AA62-00045A,KA7806		...	C213	2301-000247	C-FILM,PEF;33nF,5%,50V,TP;8.1x4.5x13mm,5	
...		0205-000129	GREASE-SILICON;SC102,JAPAN	S.N.A	...	C214	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP;7.5x4.0x5.0m	
...		1203-000284	IC-POS.FIXED REG.;7806,TO-220,3P,-PLAS		...	C215	2401-002235	C-AL;10uF,20%,16V,GP;TP5x11mm,5mm	
...		6003-000335	SCREW-TAPTITE;RH,+2S,M3,L6,ZPC(YEL),SWR	S.N.A	...	C216	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP;7.5x4.0x5.0m	
...		AA62-00045A	HEAT SINK-PS;-,-,T1.0,-,DREAM,-,-,-,-	S.N.A	...	C217	2401-001026	C-AL;3.3uF,20%,50V,GP;TP5x11,5	
△..2	IC901	AA09-00041A	IC-MCU;SDA555X-OTP;SDA555X-OTP,-,52		...	C218	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
..2	J995	2008-001018	R-FUSIBLE(S);0.47ohm,10%,2W,AF,TP;3.9x10		...	C219	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
..2	JA701	3722-001333	JACK-RCA;9P,3.2mm,NI,BLK,-		...	C220	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
△..2	LC801S	AA27-20003M	COIL-DEGAUSSING;-29,14ohm,70T,L3300,E		...	C221	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
△..2	T444S	AA26-00058A	TRANS-FBT;-FUH-29A002B(S),30,135V		...	C222	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
△..2	T801S	AA26-00044A	TRANS SWITCHING;-,-AC90-260V,DC135/15		...	C223	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
..2		AA65-30105A	CLAMP-WIRE;NYLON 66,V2,NTR,15MM,ALL MODE	S.N.A	...	C224	2201-002031	C-CERAMIC,DISC;0.005nF,0.5pF,50V,NP0,TP	
..2		AA61-00462B	SUPPORT-HEAT SINK;21A9,ABS,GRAY,VO,-,-,-	S.N.A	...	C225	2201-002031	C-CERAMIC,DISC;0.005nF,0.5pF,50V,NP0,TP	
..2		AA39-20009C	LEAD CONNECTOR-ASSY;-YFH800-01,-,1P400		...	C226	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP;7.5x4.0x5.0m	
..2		AA99-30200K	ASSY-PCB ROBOT; AA94-02781G ,ER	S.N.A	...	C228	2301-000356	C-FILM,PEF;47nF,5%,50V,TP;7.5x4.0x6.5,5m	
...	C407	2301-001338	C-FILM,MPE-PPF;0.68nF,5%,1.6kV,TP;28x7x1		...	C229	2401-002235	C-AL;10uF,20%,16V,GP;TP5x11mm,5mm	
...	C806	2401-001426	C-AL;470uF,20%,400V,GP,-,35x45mm,10		...	C231	2401-002235	C-AL;10uF,20%,16V,GP;TP5x11mm,5mm	
...	C815	2401-003026	C-AL;330uF,20%,200V,GPST,22x35,10		...	C232	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
△..3	CR401S	2306-000329	C-FILM,MPPF;7nF,3%,1.6kV,TP;28.5x18.5x11		...	C233	2305-000412	C-FILM,MPEF;470nF,5%,63V,TP,-,5mm	
△..3	CR402S	2306-000327	C-FILM,MPPF;6.3nF,3%,1.6kV,TP;28.5x18x10		...	C234	2305-000412	C-FILM,MPEF;470nF,5%,63V,TP,-,5mm	
△..3	CR405S	2306-001017	C-FILM,MPPF;680nF,5%,400V,TP;26x14.5x24m		...	C235	2305-000412	C-FILM,MPEF;470nF,5%,63V,TP,-,5mm	
△..3	CX801S	2306-000318	C-FILM,MPPF;220nF,20%,250V,TP,-,22.5mm		...	C236	2305-000412	C-FILM,MPEF;470nF,5%,63V,TP,-,5mm	
△..3	CY802S	2201-000446	C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP;15x		...	C237	2401-000914	C-AL;22uF,20%,16V,GP;TP5x11,5	
△..3	D801S	0402-001160	DIODE-BRIDGE;D5SB60,600V,2.8A,SIP-4,ST		...	C239	2401-000603	C-AL;1uF,20%,50V,GP;TP5x11,5	
...	D813	0402-000233	DIODE-RECTIFIER;FML-G12S,200V,5A,-,-		...	C242	2301-000310	C-FILM,PEF;68nF,5%,50V,TP;8.0X8.5X4.0X5,	
△..3	FP801S	3601-001012	FUSE;250V,4A,SLOW-BLOW,GLASS,5.2x20		...	C243	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
△..3	IC201S	1204-001633	IC-VIDEO PROCESS;VDP3112B-C3,DIP;64P,709		...	C244	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
△..3	IC301	AA96-50406A	ASSY-H/S;-,-AA62-30180K,LA7845,-		...	C245	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
...		0205-000129	GREASE-SILICON;SC102,JAPAN	S.N.A	...	C247	2001-000362	R-CARBON;1500HM,5%,1/8W,AA,TP,1.8X3.2MM	
...		1204-000517	IC-VERTICAL DEF.;LA7845,SIP;7P,-,PLASTIC		...	C301	2401-000603	C-AL;1uF,20%,50V,GP;TP5x11,5	
...		6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW	S.N.A	...	C302	2401-000326	C-AL;100uF,20%,35V,GP;TP8x11.5,5	
...		AA62-30180K	HEAT SINK-ES;-A6063 EXTR,-,WHT,50/13,-,	S.N.A	...	C303	2201-002031	C-CERAMIC,DISC;0.005nF,0.5pF,50V,NP0,TP	
△..3	IC401	1202-000103	IC-VOLTAGE COMP;393,DIP;8P;300MIL,DUAL,		...	C304	2305-000285	C-FILM,MPEF;220nF,5%,100V,TP;10.5X5.5X15	
△..3	IC501	1201-000539	IC-VIDEO AMP;6101,ZIP;9P,-,SINGLE,-,PLAS		...	C305	2305-000149	C-FILM,MPEF;100nF,5%,100V,TP;12x12.5x6.5	
△..3	IC502	1201-000539	IC-VIDEO AMP;6101,ZIP;9P,-,SINGLE,-,PLAS		...	C306	2301-000342	C-FILM,PEF;2.2nF,5%,50V,TP;7.4x3.9x13mm,	
△..3	IC503	1201-000539	IC-VIDEO AMP;6101,ZIP;9P,-,SINGLE,-,PLAS		...	C307	2401-000360	C-AL;100uF,20%,50V,GP;TP8x11.5,5	
△..3	IC601	1204-001594	IC-SOUND PROCESSOR;MSP3440G-B6,SDIP;52P,		...	C308	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP;7.5x4.0x5.0m	
△..3	IC803	1203-002085	IC-VOLTAGE REGULATOR;78R08,TO-220,4P,-,P		...	C401	2201-000556	C-CERAMIC,DISC;0.47nF,10%,500V,Y5P,TP,5	
△..3	IC902	1103-001171	IC-EEPROM;L51DC,16KBIT,DIP;8P;300MIL,10m		...	C402	2401-001397	C-AL;470uF,20%,25V,GP;TP10x16.5	
					...	C403	2201-000556	C-CERAMIC,DISC;0.47nF,10%,500V,Y5P,TP,5	
					...	C404	2401-001397	C-AL;470uF,20%,25V,GP;TP10x16.5	
					...	C408	2305-000382	C-FILM,MPEF;4.7nF,5%,400V,TP,-,5mm	
					...	C411	2301-000232	C-FILM,PEF;3.3nF,5%,50V,TP;8.1x4.5x13mm,	



## Electrical Parts List

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
....4	C412	2305-000178	C-FILM,MPEF:10nF,5%,100V,TP,-5mm		....4	C827	2401-002235	C-AL:10uF,20%,16V,GP,TP5x11mm,5mm	
....4	C414	2401-002597	C-AL:220uF,20%,35V,GP,TP,10x12.5,5		....4	C829	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
....4	C415	2301-000301	C-FILM,PEF:6.8nF,5%,50V,TP6.5X5.5X3.0X5		....4	C831	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
....4	C416	2301-000356	C-FILM,PEF:47nF,5%,50V,TP,7.5x4.0x6.5,5m		....4	C832	2401-001840	C-AL:100uF,20%,16V,GP,TP,6.3x11,5	
....4	C417	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....4	C835	2401-002286	C-AL:470uF,20%,16V,WT,TP,10x12.5,5	
....4	C418	2401-002597	C-AL:220uF,20%,35V,GP,TP,10x12.5,5		....4	C837	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
....4	C419	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP3		....4	C838	2401-001840	C-AL:100uF,20%,16V,GP,TP,6.3x11,5	
....4	C420	2301-001065	C-FILM,MPPF:47nF,5%,630V,TP,19x15.5x7,7		....4	C839	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
....4	C421	2201-000556	C-CERAMIC,DISC:0.47nF,10%,500V,Y5P,TP5		....4	C840	2401-002235	C-AL:10uF,20%,16V,GP,TP5x11mm,5mm	
....4	C422	2401-001527	C-AL:47uF,20%,250V,HR,TP,13x25mm,5m		....4	C841	2401-000611	C-AL:1uF,20%,50V,WT,TP5x11,5	
....4	C424	2201-000132	C-CERAMIC,DISC:0.1nF,10%,500V,Y5P,TP6.5		....4	C843	2201-000681	C-CERAMIC,DISC:0.082nF,5%,50V,SL,TP5x3	
....4	C425	2201-000599	C-CERAMIC,DISC:0.56nF,10%,500V,Y5P,TP5		....4	C901	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
....4	C427	2401-002267	C-AL:2.2uF,20%,250V,GP,TP8x11,5,5		....4	C902	2401-000553	C-AL:1uF,10%,50V,GP,TP5x11,5	
....4	C429	2301-000232	C-FILM,PEF:3.3nF,5%,50V,TP8.1x4.5x13mm,		....4	C904	2401-000302	C-AL:100uF,20%,25V,GP,TP,6.3x11,5	
....4	C504	2305-000704	C-FILM,MPEF:100nF,5%,250V,TP,16.5x10.3x5		....4	C905	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP3	
....4	C505	2201-000599	C-CERAMIC,DISC:0.56nF,10%,500V,Y5P,TP5		....4	C907	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
....4	C506	2305-000704	C-FILM,MPEF:100nF,5%,250V,TP,16.5x10.3x5		....4	C908	2202-000863	C-CERAMIC,MLC-AXIAL:560pF,10%,50V,Y5P,TP	
....4	C507	2201-000599	C-CERAMIC,DISC:0.56nF,10%,500V,Y5P,TP5		....4	C910	2201-000980	C-CERAMIC,DISC:0.03nF,5%,50V,NP0,TP5x3	
....4	C508	2305-000704	C-FILM,MPEF:100nF,5%,250V,TP,16.5x10.3x5		....4	C911	2201-000980	C-CERAMIC,DISC:0.03nF,5%,50V,NP0,TP5x3	
....4	C509	2201-000599	C-CERAMIC,DISC:0.56nF,10%,500V,Y5P,TP5		....4	C912	2202-000719	C-CERAMIC,MLC-AXIAL:6.8nF,20%,16V,Y5R,3	
....4	C511	2401-000493	C-AL:10uF,20%,50V,LZ,TP5x11mm,5mm		....4	C913	2401-000287	C-AL:100uF,20%,16V,WT,TP6.3x11,5	
....4	C512	2401-000914	C-AL:22uF,20%,16V,GP,TP5x11,5		....4	C914	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
....4	C513	2301-000192	C-FILM,PEF:1nF,5%,50V,TP5.3x10mm,5mm		....4	C915	2401-000287	C-AL:100uF,20%,16V,WT,TP6.3x11,5	
....4	C514	2401-000430	C-AL:10uF,20%,250V,GP,TP,10x16mm,5m		....4	C916	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
....4	C515	2401-001232	C-AL:4.7uF,20%,250V,GP,TP,10x12.5,5		....4	C917	2401-001840	C-AL:100uF,20%,16V,GP,TP,6.3x11,5	
....4	C516	2201-002063	C-CERAMIC,DISC:10nF,+80-20%,3KV,Y5V,TP,1		....4	C918	2401-001840	C-AL:100uF,20%,16V,GP,TP,6.3x11,5	
....4	C605	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....4	C919	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
....4	C607	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP3		....4	C920	2401-000480	C-AL:10uF,20%,50V,GP,TP5x11,5	
....4	C608	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP3		....4	C921	2202-002037	C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V	
....4	C610	2301-000314	C-FILM,PEF:8.2nF,5%,50V,TP6.5x3.0x5.5mm		....4	CG501	AA27-00084A	COIL:S-23,-,-,-,-,-,S-23,5000Mohm	
....4	C611	2301-000314	C-FILM,PEF:8.2nF,5%,50V,TP6.5x3.0x5.5mm		....4	CG502	AA27-00084A	COIL:S-23,-,-,-,-,-,S-23,5000Mohm	
....4	C612	2401-001914	C-AL:1uF,20%,50V,BP,TP5x11,5		....4	CG503	AA27-00084A	COIL:S-23,-,-,-,-,-,S-23,5000Mohm	
....4	C613	2401-001914	C-AL:1uF,20%,50V,BP,TP5x11,5		....4	CN602	3711-002644	CONNECTOR-HEADER:BOX,5P,1R,2.5mm,STRAIGH	
....4	C617	2401-000493	C-AL:10uF,20%,50V,LZ,TP5x11mm,5mm		....4	CN701	3711-002647	CONNECTOR-HEADER:BOX,8P,1R,2.5mm,STRAIGH	
....4	C620	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		△....4	CR403S	2303-001001	C-FILM,PPF:22nF,5%,630V,TP,18x14.5x8.5mm	
....4	C621	2401-001998	C-AL:1000uF,20%,25V,GP,TP,10x20,5mm		....4	CW901	2503-000156	C-NETWORK:100pF,4.20%,50V	
....4	C626	2401-001989	C-AL:4.7uF,20%,50V,BP,TP5x11,5		....4	D201	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,	
....4	C628	2401-001989	C-AL:4.7uF,20%,50V,BP,TP5x11,5		....4	D202	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,	
....4	C630	2401-002235	C-AL:10uF,20%,16V,GP,TP5x11mm,5mm		....4	D203	0404-000156	DIODE-SCHOTTKY:RB441Q,10V,100mA,DO-34,TP	
....4	C631	2401-002235	C-AL:10uF,20%,16V,GP,TP5x11mm,5mm		....4	D204	0404-000156	DIODE-SCHOTTKY:RB441Q,10V,100mA,DO-34,TP	
....4	C632	2202-000231	C-CERAMIC,MLC-AXIAL:330pF,10%,50V,Y5P,TP		....4	D205	0404-000156	DIODE-SCHOTTKY:RB441Q,10V,100mA,DO-34,TP	
....4	C634	2401-001840	C-AL:100uF,20%,16V,GP,TP,6.3x11,5		....4	D206	0404-000156	DIODE-SCHOTTKY:RB441Q,10V,100mA,DO-34,TP	
....4	C635	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....4	D207	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,	
....4	C636	2401-001026	C-AL:3.3uF,20%,50V,GP,TP5x11,5		....4	D208	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,	
....4	C637	2401-000027	C-AL:4.7uF,20%,50V,GP,TP5x11,5		....4	D209	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,	
....4	C640	2401-000027	C-AL:4.7uF,20%,50V,GP,TP5x11,5		....4	D210	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,	
....4	C641	2401-000027	C-AL:4.7uF,20%,50V,GP,TP5x11,5		....4	D212	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,	
....4	C643	2401-000027	C-AL:4.7uF,20%,50V,GP,TP5x11,5		....4	D301	0402-000546	DIODE-RECTIFIER:TVR10G,400V,1.0A,DO-41,T	
....4	C645	2401-002235	C-AL:10uF,20%,16V,GP,TP5x11mm,5mm		....4	D401	0402-000540	DIODE-RECTIFIER:RU20A,600V,1.5A,-,TP	
....4	C646	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....4	D402	0402-000540	DIODE-RECTIFIER:RU20A,600V,1.5A,-,TP	
....4	C647	2202-000286	C-CERAMIC,MLC-AXIAL:56pF,5%,50V,SL,TP,1		....4	D403	0402-001321	DIODE-RECTIFIER:1A4G,400,1A,R-1,TP	
....4	C648	2401-001989	C-AL:4.7uF,20%,50V,BP,TP5x11,5		....4	D404	0402-000534	DIODE-RECTIFIER:RG10V,400V,1.2A,DO-201,T	
....4	C650	2201-000558	C-CERAMIC,DISC:0.47nF,10%,50V,Y5P,TP5x3		....4	D406	0402-001321	DIODE-RECTIFIER:1A4G,400,1A,R-1,TP	
....4	C652	2401-001840	C-AL:100uF,20%,16V,GP,TP,6.3x11,5		....4	D407	0402-000493	DIODE-RECTIFIER:1R5GU41,400V,1.5A,DO-15L	
....4	C654	2202-000286	C-CERAMIC,MLC-AXIAL:56pF,5%,50V,SL,TP,1		....4	D408	0402-000546	DIODE-RECTIFIER:TVR10G,400V,1.0A,DO-41,T	
....4	C656	2201-000304	C-CERAMIC,DISC:0.001nF,0.25pF,50V,NP0,TP		....4	D410	0402-000493	DIODE-RECTIFIER:1R5GU41,400V,1.5A,DO-15L	
....4	C657	2201-000304	C-CERAMIC,DISC:0.001nF,0.25pF,50V,NP0,TP		....4	D411	0402-000546	DIODE-RECTIFIER:TVR10G,400V,1.0A,DO-41,T	
....4	C660	2401-001840	C-AL:100uF,20%,16V,GP,TP,6.3x11,5		....4	D413	0402-000537	DIODE-RECTIFIER:RH1A,600V,0.6A,DO-204AC	
....4	C803	2301-000356	C-FILM,PEF:47nF,5%,50V,TP,7.5x4.0x6.5,5m		....4	D502	0402-001321	DIODE-RECTIFIER:1A4G,400,1A,R-1,TP	
....4	C804	2201-000332	C-CERAMIC,DISC:2.2nF,20%,250V,Y5U,TP,9x4		....4	D503	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,	
....4	C805	2201-000332	C-CERAMIC,DISC:2.2nF,20%,250V,Y5U,TP,9x4		....4	D504	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,	
....4	C807	2301-001342	C-FILM,PPF:1.5nF,5%,800V,TP,15x6.5x11.5m		....4	D505	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,	
....4	C808	2401-002300	C-AL:47uF,20%,50V,GP,TP,6.3x11,5		....4	D602	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,	
....4	C809	2301-000356	C-FILM,PEF:47nF,5%,50V,TP,7.5x4.0x6.5,5m		....4	D603	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,	
....4	C811	2301-000310	C-FILM,PEF:68nF,5%,50V,TP8.0X8.5X4.0X5		....4	D801	0402-001111	DIODE-RECTIFIER:1N5397GP,600V,1.5A,DO-20	
....4	C814	2201-000991	C-CERAMIC,DISC:0.56nF,10%,2KV,Y5P,TP,7.5		....4	D803	0402-000546	DIODE-RECTIFIER:TVR10G,400V,1.0A,DO-41,T	
....4	C816	2401-000262	C-AL:100uF,20%,160V,HR,TP,16x25,7.5		....4	D804	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,	
....4	C817	2201-000599	C-CERAMIC,DISC:0.56nF,10%,500V,Y5P,TP5		....4	D808	0402-001321	DIODE-RECTIFIER:1A4G,400,1A,R-1,TP	
....4	C818	2401-000722	C-AL:2200uF,20%,25V,WT,TP,16x25,7.5		....4	D810	0402-001321	DIODE-RECTIFIER:1A4G,400,1A,R-1,TP	
....4	C819	2201-000599	C-CERAMIC,DISC:0.56nF,10%,500V,Y5P,TP5		....4	D811	0402-001321	DIODE-RECTIFIER:1A4G,400,1A,R-1,TP	
....4	C820	2401-001054	C-AL:3300uF,20%,25V,GP,TP,18x25,7.5		....4	D816	0402-000546	DIODE-RECTIFIER:TVR10G,400V,1.0A,DO-41,T	
....4	C821	2301-000192	C-FILM,PEF:1nF,5%,50V,TP5.3x10mm,5mm		....4	D901	0404-000156	DIODE-SCHOTTKY:RB441Q,10V,100mA,DO-34,TP	
....4	C822	2201-000599	C-CERAMIC,DISC:0.56nF,10%,500V,Y5P,TP5		....4	D902	0404-000156	DIODE-SCHOTTKY:RB441Q,10V,100mA,DO-34,TP	
....4	C823	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....4	D903	0404-000156	DIODE-SCHOTTKY:RB441Q,10V,100mA,DO-34,TP	
....4	C825	2306-000122	C-FILM,MPPF:100nF,5%,50V,TP,7.3x4.0x5.0m		....4	D904	0404-000156	DIODE-SCHOTTKY:RB441Q,10V,100mA,DO-34,TP	
....4	C826	2401-001363	C-AL:470uF,20%,16V,GP,TP,10x12.5,5		....4	D905	0404-000156	DIODE-SCHOTTKY:RB441Q,10V,100mA,DO-34,TP	

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
....4	D906	0401-000005	DIODE-SWITCHING;1N4148,100V,200MA,DO-35,		....4	Q201	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	D907	0402-001321	DIODE-RECTIFIER:1A4G,400,1A,R-1,TP		....4	Q202	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	D908	0401-000005	DIODE-SWITCHING;1N4148,100V,200MA,DO-35,		....4	Q203	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	DZ201	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....4	Q204	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	DZ202	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....4	Q206	0501-000283	TR-SMALL SIGNAL-KSA539,PNP,400mW,TO-92,T	
....4	DZ203	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....4	Q207	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	DZ204	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....4	Q208	0501-000283	TR-SMALL SIGNAL-KSA539,PNP,400mW,TO-92,T	
....4	DZ302	0403-001329	DIODE-ZENER:MTZJ24B,22.61-23.77V,500mW,D		....4	Q209	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	DZ303	0403-001329	DIODE-ZENER:MTZJ24B,22.61-23.77V,500mW,D		....4	Q210	0501-000283	TR-SMALL SIGNAL-KSA539,PNP,400mW,TO-92,T	
....4	DZ304	0403-001329	DIODE-ZENER:MTZJ24B,22.61-23.77V,500mW,D		....4	Q211	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	DZ305	0403-001221	DIODE-ZENER:UZ39BSB,35.36-37.19V,500mW,D		....4	Q212	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	DZ306	0403-000700	DIODE-ZENER:TZP33A,33V,31-35V,1W,DO-41,T		....4	Q213	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	DZ401	0403-001325	DIODE-ZENER:MTZJ15C,14.35-15.09V,500mW,D		....4	Q222	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	DZ402	0401-000005	DIODE-SWITCHING;1N4148,100V,200MA,DO-35,		....4	Q402	0502-001007	TR-POWER-KSC2073-H2,NPN,25W,TO-220,ST,6	
....4	DZ502	0403-001211	DIODE-ZENER:MTZJ12B,11.44-12.03V,500mW,D		....4	Q404	0505-000156	FET-SILICON:IRF620,N,200V,5A,0.8ohm,50W,	S.N.A
....4	DZ601	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....4	Q405	0501-000283	TR-SMALL SIGNAL-KSA539,PNP,400mW,TO-92,T	
....4	DZ602	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....4	Q501	0501-000283	TR-SMALL SIGNAL-KSA539,PNP,400mW,TO-92,T	
....4	DZ603	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V,500		....4	Q602	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	DZ701	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V,500		....4	Q802	0501-000369	TR-SMALL SIGNAL-KSC2331-Y,NPN,1W,TO-92L,	
....4	DZ702	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V,500		....4	Q901	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	DZ801	0403-001322	DIODE-ZENER:MTZJ8.2B,7.78-8.19V,500mW,DO		....4	Q902	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	DZ802	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....4	Q903	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	DZ803	0403-001167	DIODE-ZENER:MTZJ30D,30V,29.02-30.51V,500		....4	Q904	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	DZ804	0403-000700	DIODE-ZENER:TZP33A,33V,31-35V,1W,DO-41,T		....4	Q905	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	DZ805	1203-001217	IC-POS:ADJ.UST REG.:431,TO-92,3P,4.58MIL		....4	Q906	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	DZ806	0403-000714	DIODE-ZENER:MTZJ3.3B,3.3V,3.32-3.53V,500		....4	Q907	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	DZ808	0403-000719	DIODE-ZENER:MTZJ7.5B,7.5V,7.07-7.45V,500		....4	Q908	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	DZ901	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....4	Q909	0505-000109	FET-SILICON:2N7000,N,60V,200mA,5ohm,400m	S.N.A
....4	DZ902	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....4	Q910	0505-000109	FET-SILICON:2N7000,N,60V,200mA,5ohm,400m	S.N.A
....4	DZ903	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....4	Q911	0501-000389	TR-SMALL SIGNAL-KSC815,NPN,400mW,TO-92,T	
....4	DZ904	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....4	R102	2001-000924	R-CARBON:680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	DZ905	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....4	R103	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	DZ906	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....4	R105	2001-000786	R-CARBON:47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	DZ907	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500		....4	R106	2001-000864	R-CARBON:56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	F801A	3602-000114	FUSE-HOLDER:-,30mohm	S.N.A	....4	R201	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	F801B	3602-000114	FUSE-HOLDER:-,30mohm	S.N.A	....4	R202	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
△	FD801S	3601-001086	FUSE-AXIAL LEAD:125V,5A,FAST-ACTING,GLAS		....4	R203	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
△	FD802S	3601-001228	FUSE-AXIAL LEAD:125V,10A,FAST-ACTING,EPO		....4	R204	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
△	FD803S	3601-001086	FUSE-AXIAL LEAD:125V,5A,FAST-ACTING,GLAS		....4	R205	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
△	IC903	1203-001944	IC-POS:FIXED REG.:78RM33,TO-220,3P,-,PL		....4	R206	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
△	IC904	1203-001943	IC-VOL. DETECTOR:7025,TO-92,3P,-,PLASTIC		....4	R207	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4	J501	2001-000832	R-CARBON:510OHM,5%,1/8W,AA,TP,1.8X3.2MM		....4	R208	2001-000405	R-CARBON:180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	J699	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		....4	R209	2001-000221	R-CARBON:1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4	J909	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		....4	R210	2001-000812	R-CARBON:5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4	L102	2701-000159	INDUCTOR-AXIAL:22uH,10%,4.2x9.8mm		....4	R211	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L103	2701-000115	INDUCTOR-AXIAL:10uH,10%,3x7mm		....4	R212	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L201	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		....4	R213	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4	L202	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		....4	R214	2001-000008	R-CARBON:15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L203	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....4	R215	2001-000522	R-CARBON:22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L204	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		....4	R216	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L207	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		....4	R222	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L208	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		....4	R223	2001-000003	R-CARBON:330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
....4	L209	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		....4	R224	2001-000003	R-CARBON:330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
....4	L301	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		....4	R225	2001-000003	R-CARBON:330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
....4	L302	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....4	R226	2001-000003	R-CARBON:330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
....4	L303	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....4	R228	2001-001170	R-CARBON(S):6.8OHM,5%,1/2W,AA,TP,2.4x6.4	
....4	L402	2901-000299	FILTER-EMI ON BOARD:-,6A,UL/CSA,-,9x7.5,		....4	R231	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L406	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		....4	R232	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L407	2901-000297	FILTER-EMI ON BOARD:-,3A,-,3.5x5,TP,-		....4	R233	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L601	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		....4	R234	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L602	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		....4	R235	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L603	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		....4	R236	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L604	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		....4	R237	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L609	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		....4	R238	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L610	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....4	R241	2001-000343	R-CARBON:130OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L801	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....4	R245	2001-000005	R-CARBON:390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
....4	L802	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....4	R246	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L803	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....4	R248	2001-000969	R-CARBON:750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L804	2901-000297	FILTER-EMI ON BOARD:-,3A,-,3.5x5,TP,-		....4	R249	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L806	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....4	R250	2001-000005	R-CARBON:390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
....4	L807	2901-000297	FILTER-EMI ON BOARD:-,3A,-,3.5x5,TP,-		....4	R251	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L809	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,		....4	R252	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L901	2901-000299	FILTER-EMI ON BOARD:-,6A,UL/CSA,-,9x7.5,		....4	R253	2001-000969	R-CARBON:750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L903	2901-000299	FILTER-EMI ON BOARD:-,6A,UL/CSA,-,9x7.5,		....4	R254	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L904	2901-000299	FILTER-EMI ON BOARD:-,6A,UL/CSA,-,9x7.5,		....4	R255	2001-000005	R-CARBON:390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
....4	L905	2001-000995	R-CARBON:820OHM,5%,1/8W,AA,TP,1.8X3.2MM		....4	R256	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	L906	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		....4	R258	2001-000969	R-CARBON:750OHM,5%,1/8W,AA,TP,1.8X3.2MM	

## Electrical Parts List

Level	Loc. No.	Code No.	Description ; Specification	Remark
....4	R259	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R260	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R261	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R262	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R263	2001-000786	R-CARBON:47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R264	2001-000003	R-CARBON:330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
....4	R265	2001-000003	R-CARBON:330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
....4	R267	2001-000003	R-CARBON:330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
....4	R301	2004-001397	R-METAL(S):4.7Kohm,1%,1/2W,AA,TP,2.4x6.4	
....4	R302	2004-001984	R-METAL(S):26.7Kohm,1%,1/2W,AA,TP,2.4x6.4	
....4	R303	2001-000016	R-CARBON(S):10HM,5%,1/2W,AA,TP,2.4X6.4MM	
....4	R304	2003-002014	R-METAL OXIDE(S):0.6OHM,5%,2W,AF,TP,3.9X	
....4	R305	2008-001107	R-FUSIBLE(S):300ohm,5%,2W,AG,TP,3.9x12mm	
....4	R306	2008-001107	R-FUSIBLE(S):300ohm,5%,2W,AG,TP,3.9x12mm	
....4	R309	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R310	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R313	2001-000890	R-CARBON:6.8KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4	R314	2004-001986	R-METAL(S):35.7Kohm,1%,1/2W,AA,TP,2.4x6.4	
....4	R315	2004-004970	R-METAL(S):62Kohm,1%,1/8W,AA,TP,1.8x3.2m	
....4	R401	2003-002186	R-METAL OXIDE(S):22Kohm,5%,2W,AG,TP,3.9x	
....4	R402	2003-002186	R-METAL OXIDE(S):22Kohm,5%,2W,AG,TP,3.9x	
....4	R403	2003-002037	R-METAL OXIDE(S):270ohm,5%,2W,AF,TP,3.9x	
....4	R405	2008-001018	R-FUSIBLE(S):0.47ohm,10%,2W,AF,TP,3.9x10	
....4	R407	2001-000066	R-CARBON(S):10KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R408	2008-000284	R-FUSIBLE(S):0.1OHM,10%,2W,AF,TP,3.9X10M	
....4	R409	2001-001140	R-CARBON(S):390OHM,5%,1/2W,AA,TP,2.4X6.4M	
....4	R410	2001-001114	R-CARBON(S):270OHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R411	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R412	2001-000020	R-CARBON(S):220HM,5%,1/2W,AA,TP,2.4X6.4M	
....4	R413	2008-001018	R-FUSIBLE(S):0.47ohm,10%,2W,AF,TP,3.9x10	
....4	R415	2004-001983	R-METAL(S):2.49Kohm,1%,1/2W,AA,TP,2.4x6.4	
....4	R417	2004-001893	R-METAL(S):22Kohm,1%,1/2W,AA,TP,2.5x6.5m	
....4	R418	2001-001088	R-CARBON(S):1KOHM,5%,1/2W,AA,TP,2.4X6.4M	
....4	R420	2001-001168	R-CARBON(S):6.8KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R421	2001-001144	R-CARBON(S):4.7KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R424	2008-001018	R-FUSIBLE(S):0.47ohm,10%,2W,AF,TP,3.9x10	
....4	R425	2008-001018	R-FUSIBLE(S):0.47ohm,10%,2W,AF,TP,3.9x10	
....4	R426	2003-000540	R-METAL OXIDE(S):1Kohm,5%,2W,AF,TP,4x12m	
....4	R427	2001-001150	R-CARBON(S):470KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R428	2001-001052	R-CARBON(S):1.5MOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R429	2004-001397	R-METAL(S):4.7Kohm,1%,1/2W,AA,TP,2.4x6.4	
....4	R432	2004-001397	R-METAL(S):4.7Kohm,1%,1/2W,AA,TP,2.4x6.4	
....4	R433	2008-001127	R-FUSIBLE(S):6.8Kohm,5%,1W,AF,TP,3.9X10m	
....4	R434	2003-000664	R-METAL OXIDE(S):33ohm,5%,2W,AF,TP,4x12m	
....4	R436	2003-002151	R-METAL OXIDE:18KOHM,5%,2W,AG,TP,6x16MM	
....4	R437	2001-001164	R-CARBON(S):56KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R438	2001-001191	R-CARBON(S):820KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R440	2001-000085	R-CARBON(S):100KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R441	2001-001144	R-CARBON(S):4.7KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R501	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R502	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R503	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R504	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4	R505	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4	R506	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4	R507	2001-000085	R-CARBON(S):100KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R508	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R509	2002-001017	R-COMPOSITION:1Kohm,10%,1/2W,AA,TP,3.7x9	
....4	R510	2001-000085	R-CARBON(S):100KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R511	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R512	2002-001017	R-COMPOSITION:1Kohm,10%,1/2W,AA,TP,3.7x9	
....4	R513	2001-000085	R-CARBON(S):100KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R514	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R515	2002-001017	R-COMPOSITION:1Kohm,10%,1/2W,AA,TP,3.7x9	
....4	R517	2001-001077	R-CARBON(S):150OHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R518	2001-001185	R-CARBON(S):750OHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R519	2001-000864	R-CARBON:56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R520	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4	R521	2001-000832	R-CARBON:510OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R522	2008-001018	R-FUSIBLE(S):0.47ohm,10%,2W,AF,TP,3.9x10	
....4	R523	2008-000264	R-FUSIBLE(S):1ohm,5%,1W,AF,TP,3.9x10mm	
....4	R524	2008-000299	R-FUSIBLE(S):47ohm,5%,2W,AF,TP,3.9x10mm	
....4	R525	2001-001062	R-CARBON(S):10MOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R526	2002-001009	R-COMPOSITION:2.7Kohm,10%,1/2W,AA,TP,3.7	
....4	R529	0403-001316	DIODE-ZENER:MTZJ3.0A,2.85-3.07V,500mW,DO	
....4	R601	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

Level	Loc. No.	Code No.	Description ; Specification	Remark
....4	R602	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R603	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R604	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm	
....4	R605	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R606	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R607	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R608	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R609	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R610	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R611	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R612	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R613	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R614	2001-000780	R-CARBON:470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R615	2001-000780	R-CARBON:470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R616	2001-000780	R-CARBON:470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R617	2001-000780	R-CARBON:470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R619	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R620	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R621	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R622	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R623	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R701	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R702	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R703	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R704	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R705	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R706	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R707	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R708	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R709	2001-000938	R-CARBON:680HM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R715	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R716	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R719	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R723	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R730	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R731	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R802	2003-001025	R-METAL OXIDE(S):15Kohm,5%,2W,AF,TP,3.9x	
....4	R803	2003-001025	R-METAL OXIDE(S):15Kohm,5%,2W,AF,TP,3.9x	
....4	R804	2003-001025	R-METAL OXIDE(S):15Kohm,5%,2W,AF,TP,3.9x	
....4	R805	2001-001150	R-CARBON(S):470KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R806	2001-001150	R-CARBON(S):470KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R807	2003-000746	R-METAL OXIDE(S):56ohm,5%,2W,AF,TP,4x12m	
....4	R808	2003-000746	R-METAL OXIDE(S):56ohm,5%,2W,AF,TP,4x12m	
....4	R809	2001-000022	R-CARBON(S):330HM,5%,1/2W,AA,TP,2.4X6.4M	
....4	R810	2001-001178	R-CARBON(S):680OHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R811	2001-001135	R-CARBON(S):36KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R812	2001-000780	R-CARBON:470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R813	2001-001153	R-CARBON(S):470OHM,5%,1/2W,AA,TP,2.4X6.4M	
....4	R816	2001-001088	R-CARBON(S):1KOHM,5%,1/2W,AA,TP,2.4X6.4M	
....4	R817	2001-001088	R-CARBON(S):1KOHM,5%,1/2W,AA,TP,2.4X6.4M	
....4	R818	2001-001113	R-CARBON(S):270KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R819	2004-001983	R-METAL(S):2.49Kohm,1%,1/2W,AA,TP,2.4x6.4	
....4	R821	2004-001891	R-METAL(S):133Kohm,1%,1/2W,AA,TP,2.5x6.5	
....4	R822	2001-000273	R-CARBON:100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4	R823	2001-000273	R-CARBON:100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4	R824	2001-000522	R-CARBON:22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R825	2001-000066	R-CARBON(S):10KOHM,5%,1/2W,AA,TP,2.4X6.4	
....4	R826	2001-001072	R-CARBON(S):120HM,5%,1/2W,AA,TP,2.4X6.4M	
....4	R827	2008-000284	R-FUSIBLE(S):0.1OHM,10%,2W,AF,TP,3.9X10M	
....4	R828	2008-000266	R-FUSIBLE(S):1ohm,5%,2W,AF,TP,3.9x10mm	
....4	R829	2003-001036	R-METAL OXIDE(S):3.3ohm,5%,2W,AF,TP,3.9x	
....4	R831	2001-000780	R-CARBON:470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R832	2001-001153	R-CARBON(S):470HM,5%,1/2W,AA,TP,2.4X6.4M	
....4	R833	2001-000472	R-CARBON:2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4	R835	2003-002211	R-METAL OXIDE(S):91Kohm,5%,2W,AG,TP,3.9x	
....4	R836	2003-002211	R-METAL OXIDE(S):91Kohm,5%,2W,AG,TP,3.9x	
....4	R901	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4	R902	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R903	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4	R904	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4	R905	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4	R906	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4	R907	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R908	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4	R909	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4	R910	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

Level	Loc. No.	Code No.	Description ; Specification	Remark
....4	R911	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R912	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R913	2001-000947	R-CARBON:7.5KOHM,5%,1/8W,AA,TP;1.8X3.2M	
....4	R914	2001-000221	R-CARBON:1.2KOHM,5%,1/8W,AA,TP;1.8X3.2M	
....4	R915	2001-000577	R-CARBON:2KOHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R916	2001-000007	R-CARBON:3KOHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R917	2001-000878	R-CARBON:6.2KOHM,5%,1/8W,AA,TP;1.8X3.2M	
....4	R918	2001-000009	R-CARBON:20KOHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R919	2001-000780	R-CARBON:470OHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R920	2001-000780	R-CARBON:470OHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R921	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP;1.8X3.2M	
....4	R922	2001-000924	R-CARBON:680OHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R923	2001-000924	R-CARBON:680OHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R924	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R925	2001-001035	R-CARBON:910OHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R926	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP;1.8X3.2M	
....4	R927	2001-000837	R-CARBON:51KOHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R929	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R930	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R931	2001-000780	R-CARBON:470OHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R932	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R933	2001-000780	R-CARBON:470OHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R934	2001-000003	R-CARBON:330ohm,5%,1/8W,AA,TP;1.8x3.2mm	
....4	R935	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R937	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP;1.8X3.2M	
....4	R938	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R939	2001-001153	R-CARBON(S):470HM,5%,1/2W,AA,TP;2.4X6.4M	
....4	R940	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R941	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R942	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R943	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R944	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R945	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R946	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP;1.8X3.2MM	
....4	R947	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP;1.8X3.2M	
....4	R948	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP;1.8X3.2M	
....4	R952	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP;1.8X3.2M	
....4	R953	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP;1.8X3.2M	
△	RR430S	2001-001088	R-CARBON(S):1KOHM,5%,1/2W,AA,TP;2.4X6.4M	
△	RY802S	2002-001013	R-COMPOSITION:4.7Mohm,5%,1/2W,AA,TP;3.7x	
....4	SW901	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
....4	SW902	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
....4	SW903	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
....4	SW904	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
....4	SW905	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
△	VP801S	1405-000152	VARIATOR:560V,2500A,14x8.5mm,TP	
△	VX801S	1405-000152	VARIATOR:560V,2500A,14x8.5mm,TP	
....4	X201	2801-003432	CRYSTAL-UNIT:20.25MHZ,30PPM,28-AAM,13PF,	
....4	X601	2801-003903	CRYSTAL-UNIT:18.432MHz,25ppm,28-AAM,12pF	
....4	X901	2801-003728	CRYSTAL-UNIT:6MHz,30ppm,28-AAM,20pF,40oh	
....4	AA41-00132D	PCB-MAIN:CB-21A8,FR-1,1LD,1.6T,330x245	S.N.A	
..2	0202-000187	SOLDER-WIRE FLUX:-,RS60S,D1.2,63Sn/37Pb	S.N.A	
..2	AA39-20010B	LEAD CONNECTOR-ASSY:-,YFH800-01,S,1P;500		
..2	AA65-30109A	CLAMP-FBT:NYLON 66,V2,BLK,-,-,-	S.N.A	
..2	AA65-30105B	CLAMP-WIRE:NYLON 66,V2,NTR,25MM,ALL MODE	S.N.A	
..2	AA65-30104B	CLAMP-WIRE:NYLON 66,V2,BLK,W2 Z5,ALL MOD	S.N.A	
..2	AA65-30009A	CLAMP-FBT:ABS,V0,BLK,-,-,-	S.N.A	

## ASSY ACCESSORY

1	* AA94-02412ZASSY ACCESSORY:CL29D4W7X/DRI,KS2A,URUGUA S.N.A		
..2	AA68-01100A	MANUAL USERS:-,-,SPA,B5,W/P100(G),-,-,-,	S.N.A
..2	AA39-40001B	CABLE-RCA:-,RCA,1500mm,0.12/10,RED/WHT/Y	
..2	3721-000136	PLUG-CONVERSION:2P,4.0mm,N,NI	

## ASSY CABINET FRONT

1	* AA91-00125TASSY CABINET FRONT:-,765D,S704 SPB D/R (				
..2	IND+CF	6003-001026	SCREW-TAPTITE:RH,+,B,M4,L15,ZPC(BLK),SWR	S.N.A	
..2	KC+CF	6003-001026	SCREW-TAPTITE:RH,+,B,M4,L15,ZPC(BLK),SWR	S.N.A	
..2	KNOPOW	AA61-60003M	SPRING-CS:-,SUS304,0.6,OD11.2,H20,N9,-,-		

Level	Loc. No.	Code No.	Description ; Specification	Remark
..2	SPK+CF	6003-001026	SCREW-TAPTITE:RH,+B,M4,L15,ZPC(BLK),SWR	S.N.A
..2		AA64-40480B	INDICATOR-LED:-,765D,-,ACRYL,-,CLR,-	
..2		AA64-60423Y	INLAY-AV/SIDE:765D,KS2A SILVER PAL,PS SH	
..2		AA64-70117B	BADGE-BRAND:AL,SS,SILVER,L65,R2000,-,-	S.N.A
..2		AA65-00011B	CLAMP-WIRE:ALL MODEL,NYLON 66,V2,NTR,15M	S.N.A
..2		AA96-00539A	ASSY SPEAKER:-,16ohm,5Vx2,3001-000280,30	
..3		3001-000280	SPEAKER:5W,16ohm,90dB,150Hz	
..3		AA39-00076A	LEAD CONNECTOR-ASSY:-,-----,35	
..2		AA64-40479B	WINDOW-REMOCON:-,765D,-,PC,V0,VIOLET,-	S.N.A
..2		AA61-40113A	STOPPER-PCB:501H,HIPS,NTR,HB,-,-	S.N.A
..2		AA64-00268R	CABINET FRONT:765D,S704P KS2A SPB,HIPS,H	
..3		AA61-40010A	BOSS-WING:-,HIPS,HB,NTR,-,-	
..2		AA64-10740D	KNOB-POWER:-,765D,G3676 NO-SILK,ABS,HB,H	
..2		AA64-10741A	KNOB-CONTROL:-,765D,G3676,ABS,HB,HI-GRY	

## ASSY CABINET

1		* AA90-00073JASSY CABINET:765D,CL765DW7X/DIR	S.N.A
.2	AV+CF	6002-000522 SCREW-TAPPING:TH,+,2,M4,L15,ZPC(BLK),SWR	S.N.A
.2	CABBAC	AA63-60001X SPACER-FELT:FELT,TO.5,BLK,330X15,-,-	S.N.A
.2	CB+CF	AA60-10050T SCREW-TAPPING:RH,+,2S,M4,L20,ZPC(BLK),SW	S.N.A
.2	CB+RCA	AA60-10050T SCREW-TAPPING:RH,+,2S,M4,L20,ZPC(BLK),SW	S.N.A
.2	CRT+CF	AA60-10050R SCREW-ASSY:WC,HH,+,M5,L31.5,SWRCH18A,ZPC	S.N.A
.2	D-COIL	AA65-30017A CLAMP-D,COIL:NYLON-66,V0,NTR,DADH300,25	S.N.A
.2		AA65-30113A CLAMP-D,COIL:NYLON 66,V2,BLK,TVI 25-29,-	S.N.A
.2		AA63-10007C BAND-PP:-,-,-,W18,-,CLEAR,1G,-	S.N.A
.2		AA64-00892B INLAY BACK:D2,D3,RCA9PPS SHEET,TO.3,BLK	S.N.A
.2		AA64-01230B INLAY COVER:D2,D3,PVC-SHEET,TO.4,94V0,-,-	S.N.A
.2		AA64-31180D CABINET-BACK:-,765D,-,HIPS,HB,BLK,-,-	
.2		AA65-30008A CLAMP-CORD:PE,HB,BLK,-,-,-	S.N.A

## REMOCON

1	* AA59-10110KREMOCON:-,TM59,SZM368ET,25,L/GRAY,SS,E	
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## ASSY-CRT

1	* AA94-50018XASSY-CRT:A70QBZ791X001(B),-200MG,30,IT
..2	AA03-00178A CRT COLOR:A700CBZ791X001(STB),-,-,30INCHQ,0

## ASSY-POWER,CORD

1	* AA96-20109CASSY-POWER,CORD:-,CP2/NO(4.0),H/C300,KKP		
..2	3811-000401	WIRE-PVC CU-BCWA,300V,ROLL,17/0.16mm,#22	S.N.A
..2	AA39-10006X	POWER-CORD:-,KKP419C,KLCE-2F,2.286MT,3P,	S.N.A
..2	AA61-20284A	HOLDER:-,P-CORD,PPV0,BLK,KE-002	S.N.A

## ASSY-PCB, A/V SIDE

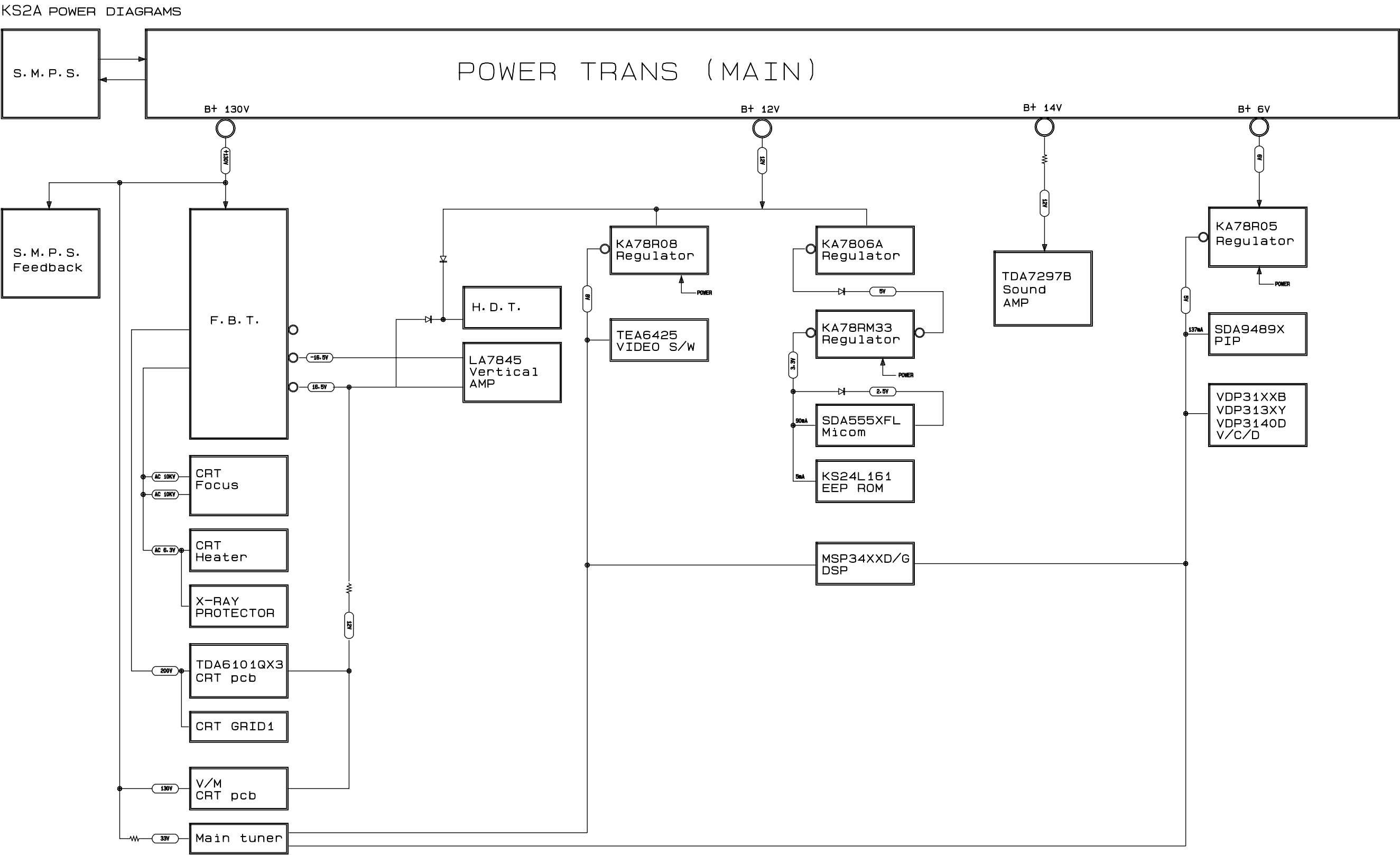
1	* AA95-00882AASSY-PCB, A/V SIDE:-,761B,765D,KS2A,-,-,-			
..2	CA02	2202-000121	C-CERAMIC,MLC-AXIAL:100pf,10%,50V,Y5P,TP	
..2	CA03	2202-000121	C-CERAMIC,MLC-AXIAL:100pf,10%,50V,Y5P,TP	
..2	CA04	2202-000720	C-CERAMIC,MLC-AXIAL:8.2nf,20%,16V,Y5R,TP	
..2	CA05	2202-000720	C-CERAMIC,MLC-AXIAL:8.2nf,20%,16V,Y5R,TP	
..2	CA06	2401-001840	C-AL:100uf,20%,16V,GP,TP;6.3x11,5	
..2	CA07	2401-001840	C-AL:100uf,20%,16V,GP,TP;6.3x11,5	
..2	CN05A	AA39-20069F	LEAD CONNECTOR-ASSY:-,67096-005,YBNH025-	
..2	CN06A	AA39-00070A	LEAD CONNECTOR-ASSY:-,-----,YB	
..2	CNA01	AA39-20068G	LEAD CONNECTOR-ASSY:-,YBNH025-08,67096-0	
..2	JE01	3722-000143	JACK-PHONE:1P(V/R),3.4mm,AG,BLK,NO	
..2	JR01	3722-001031	JACK-RCA:3P,3.6MM,#18,AU	
..2	LA02	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm	
..2	LA03	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm	
..2	LA04	2701-000177	INDUCTOR-AXIAL:33uH,10%,2.5x3.4mm	

## Electrical Parts List

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
..2	LA05	2701-000177	INDUCTOR-AXIAL:33uH,10% 2.5x3.4mm						
..2	PCB	AA41-10891A	PCB-A/V SIDE:SCT57A,1L,FR-1,245x245x1.6T	S.N.A					
..2	RA01	2001-000028	R-CARBON(S):100OHM,5%,1/2W,AA,TP2.4X6.4						
..2	RA02	2001-000028	R-CARBON(S):100OHM,5%,1/2W,AA,TP2.4X6.4						
..2		AA63-10002A	BAND-TIE:-,NYLON66 V2,-,-,L100,NTR,-,-	S.N.A					
..2		AA98-60005M	ASSY-SUB,PART:SCT57C,A/V SIDE,761B,-	S.N.A					
...3		0202-000187	SOLDER-WIRE FLUX:-,RS60S,D1.2,63Sn/37Pb	S.N.A					

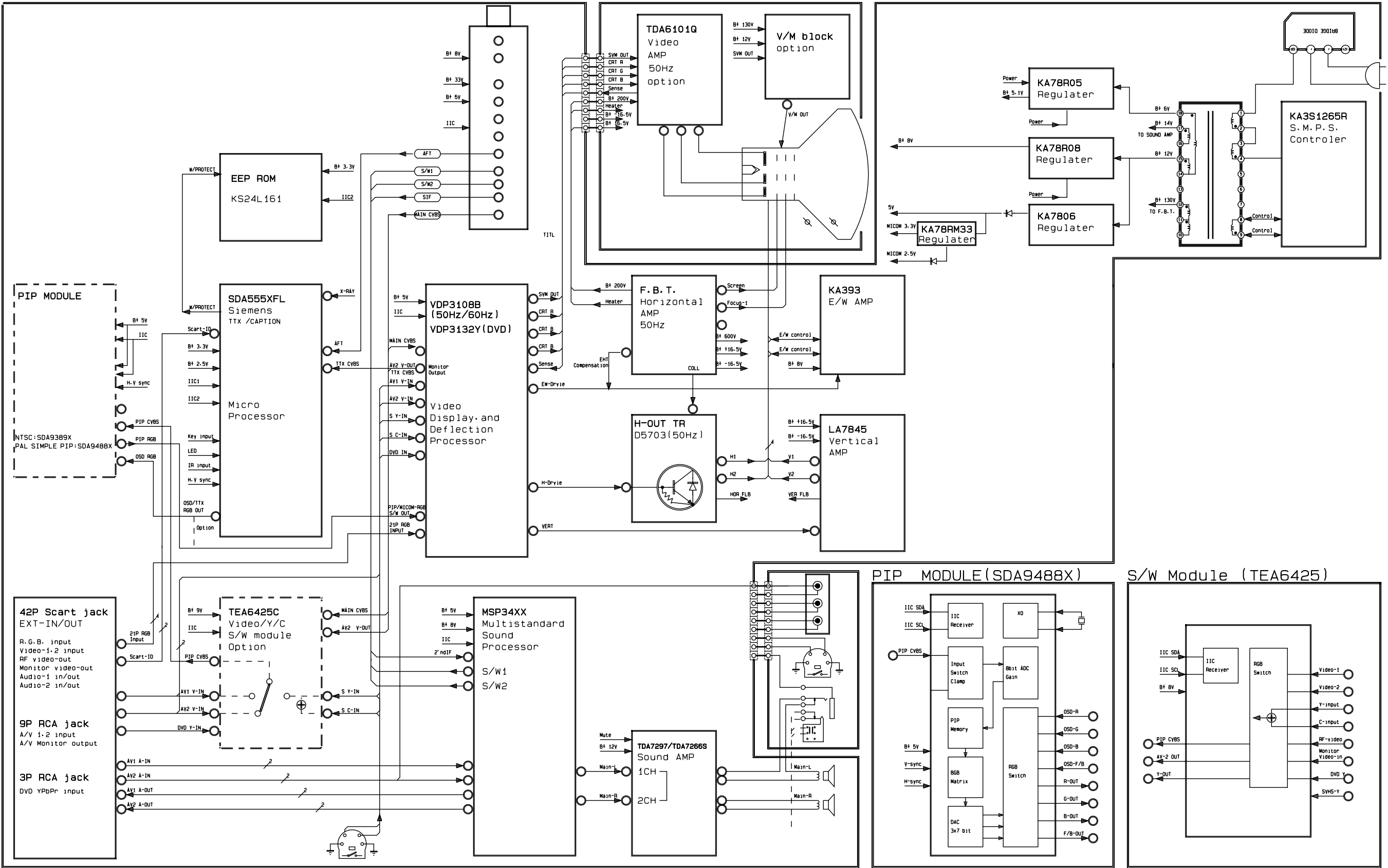
# 8. Block Diagrams

## 8-1 Power Diagram

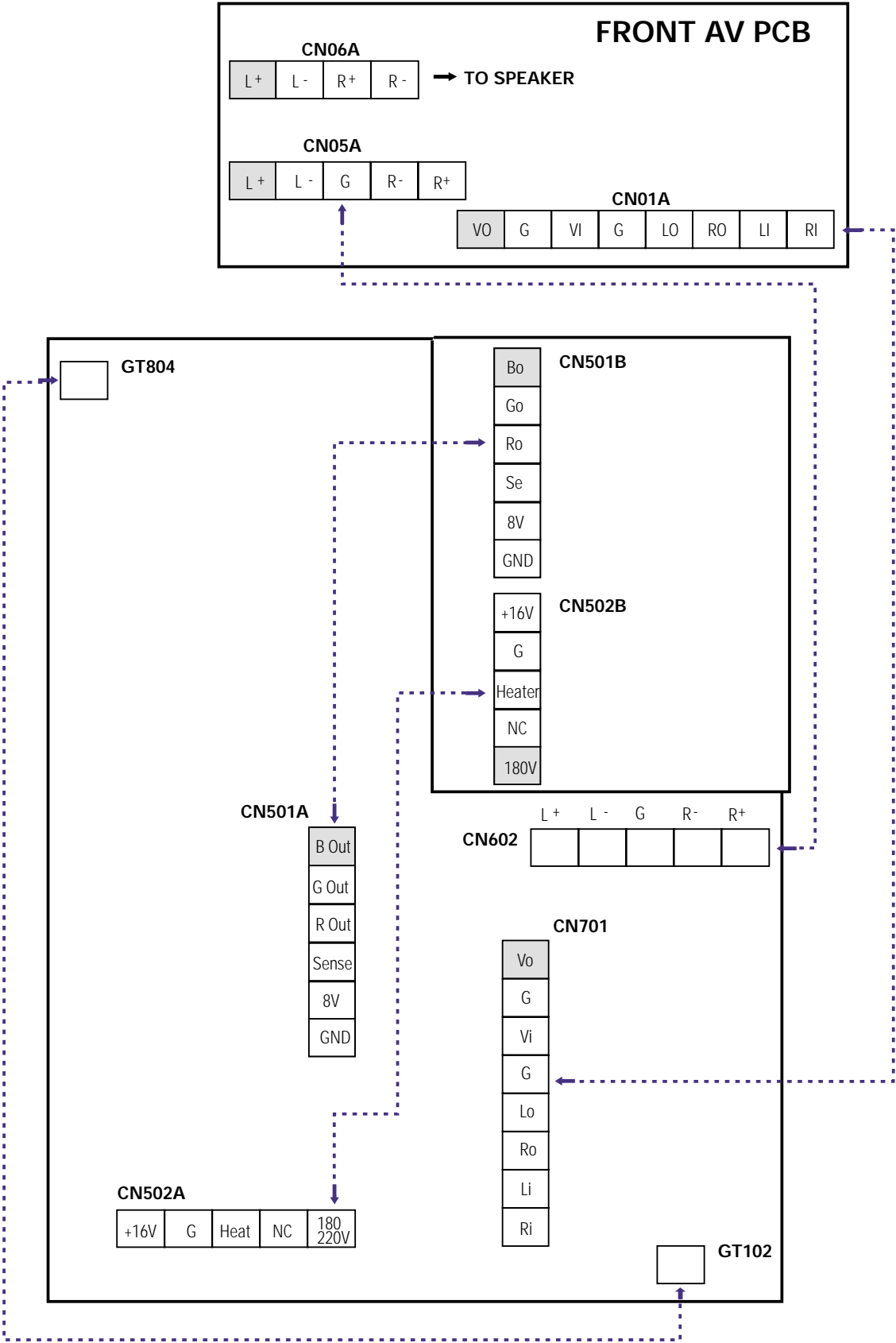


## 8-2 Block Diagram

KS2A POWER DIAGRAMS



9. Wiring Diagram

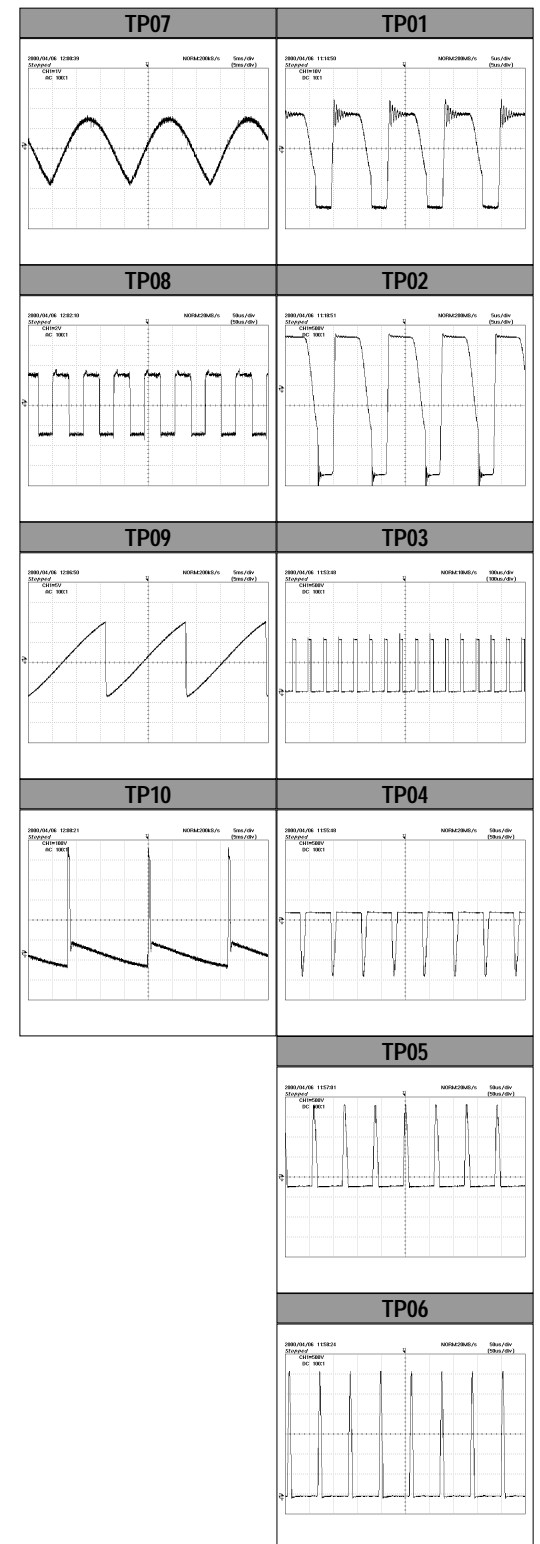
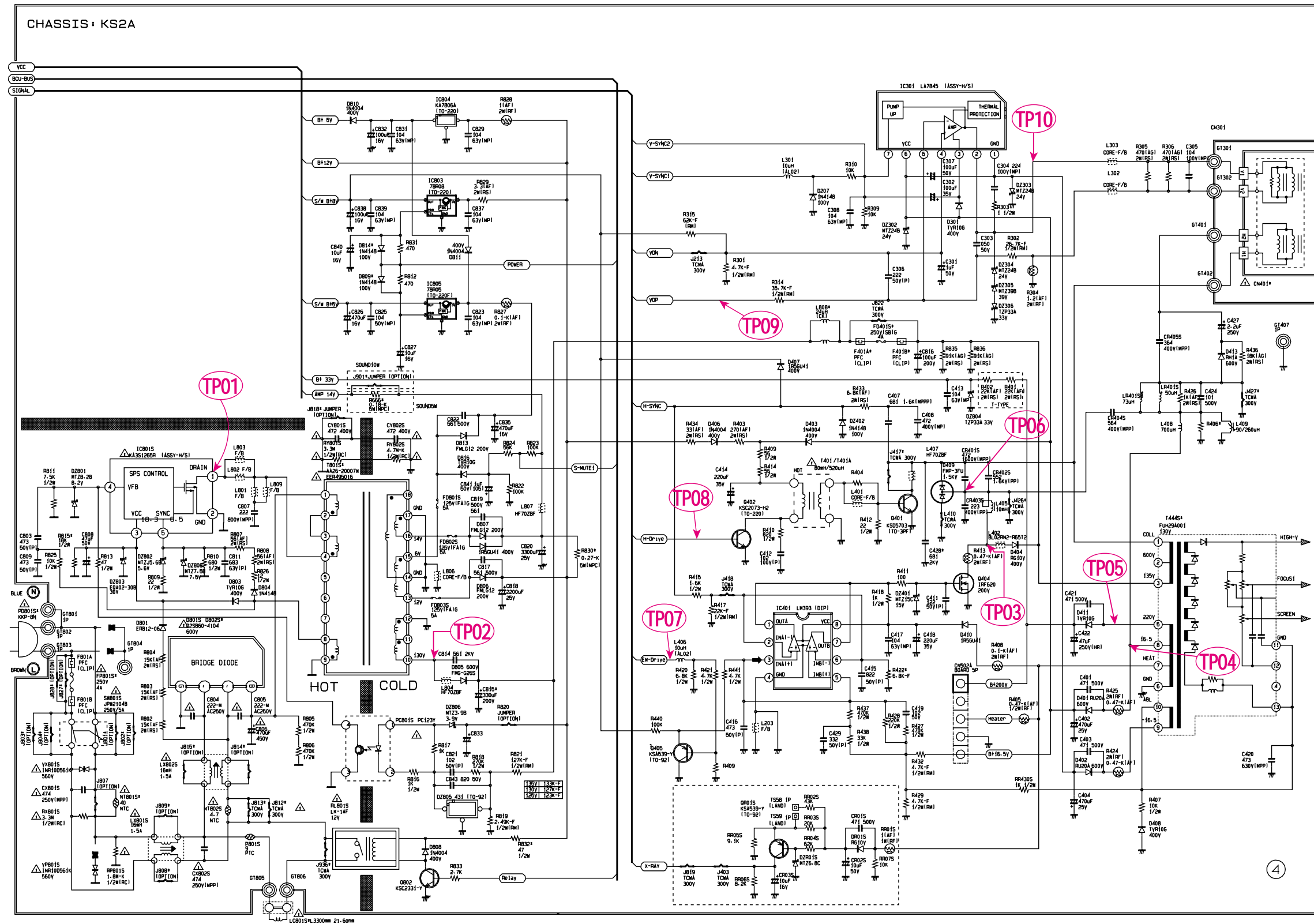




# MEMO

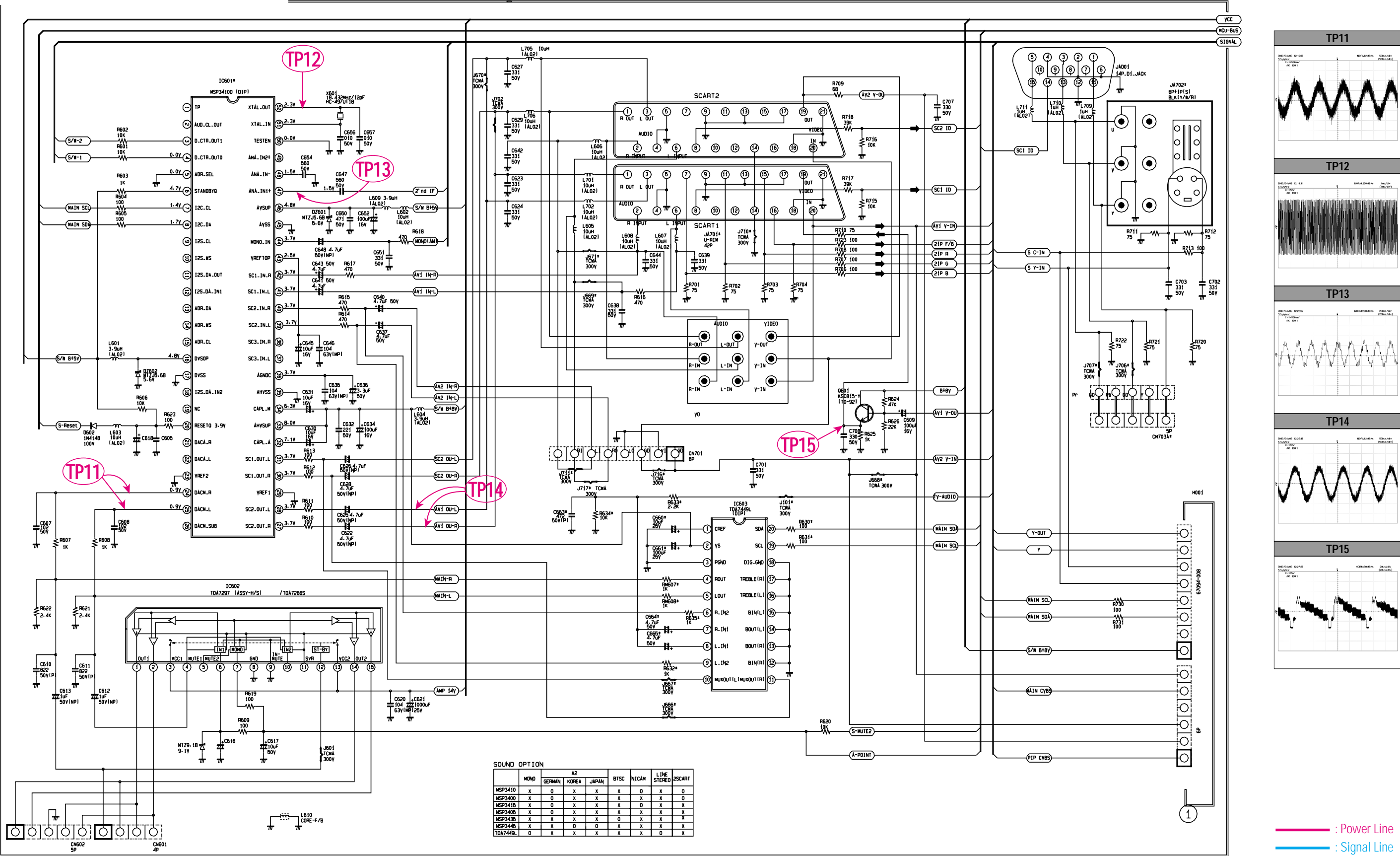
## 10. Schematic Diagrams

**10-1 MAIN 1/4 (WITH EW)**

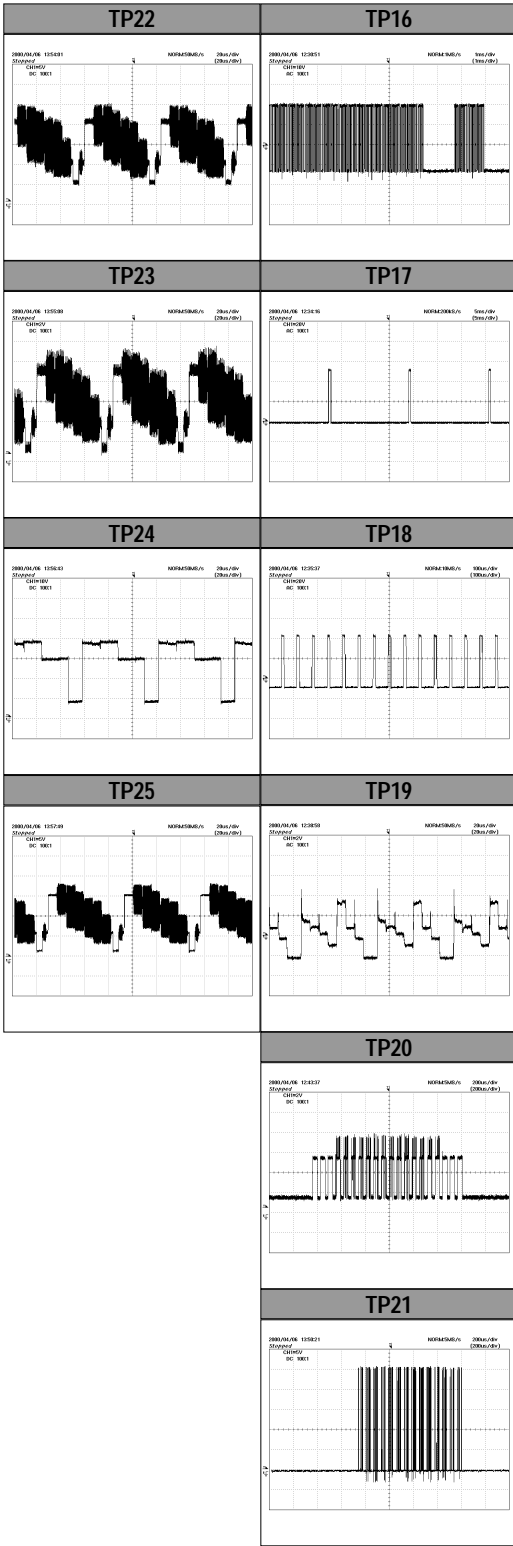
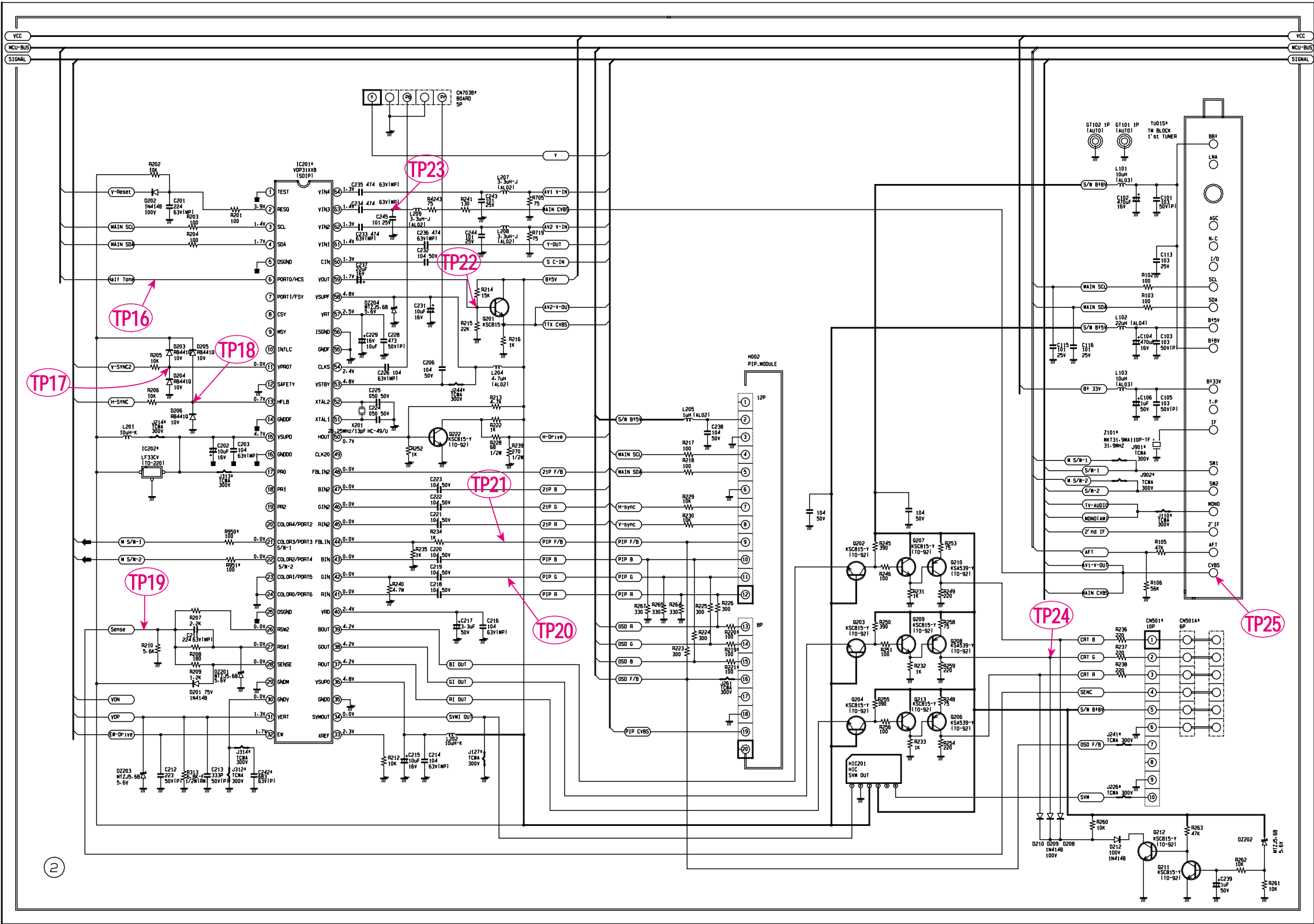


 : Power Line  
 : Signal Line

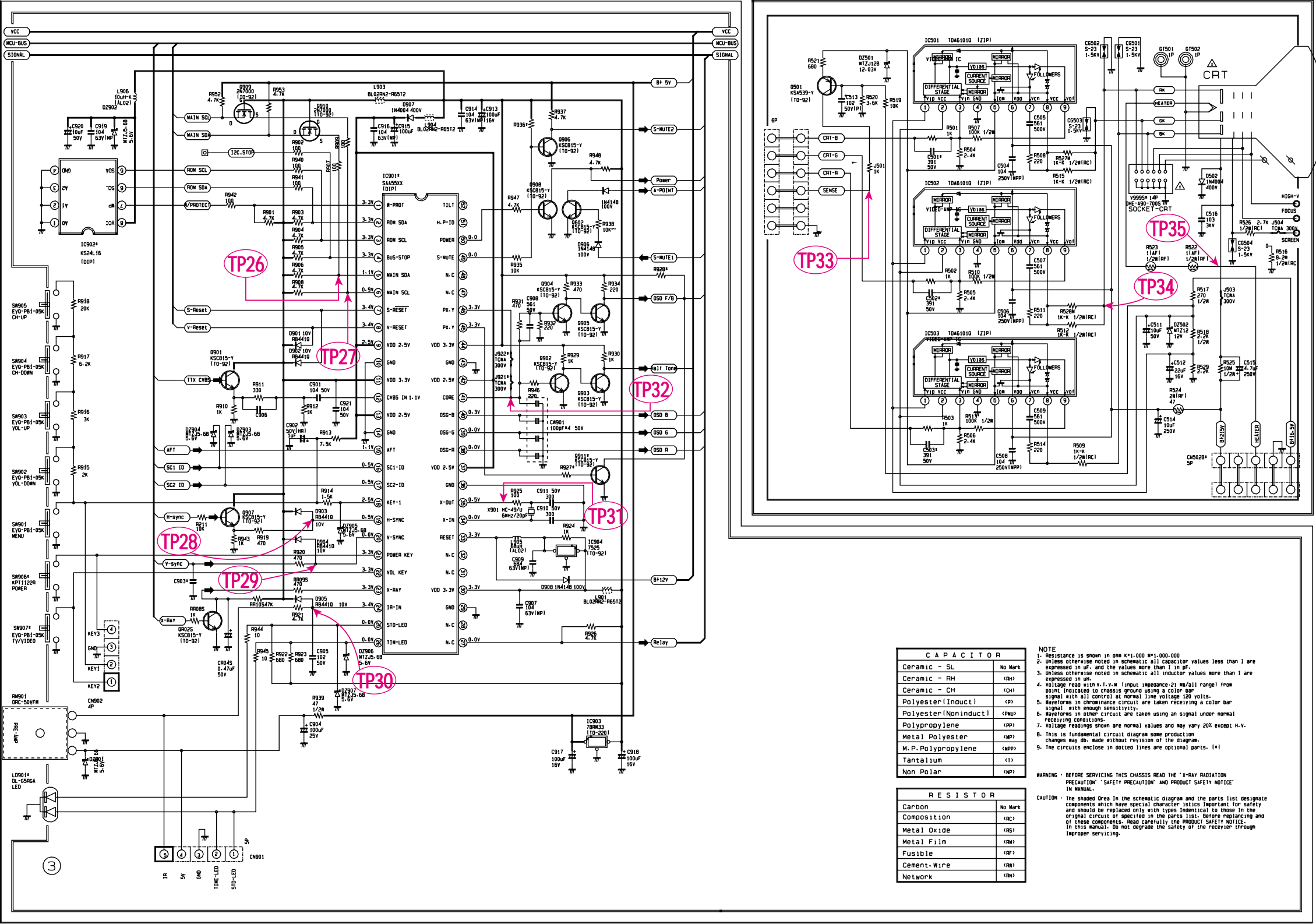
10-2 MAIN 2/4



10-3 MAIN 3/4



10-4 MAIN 4/4



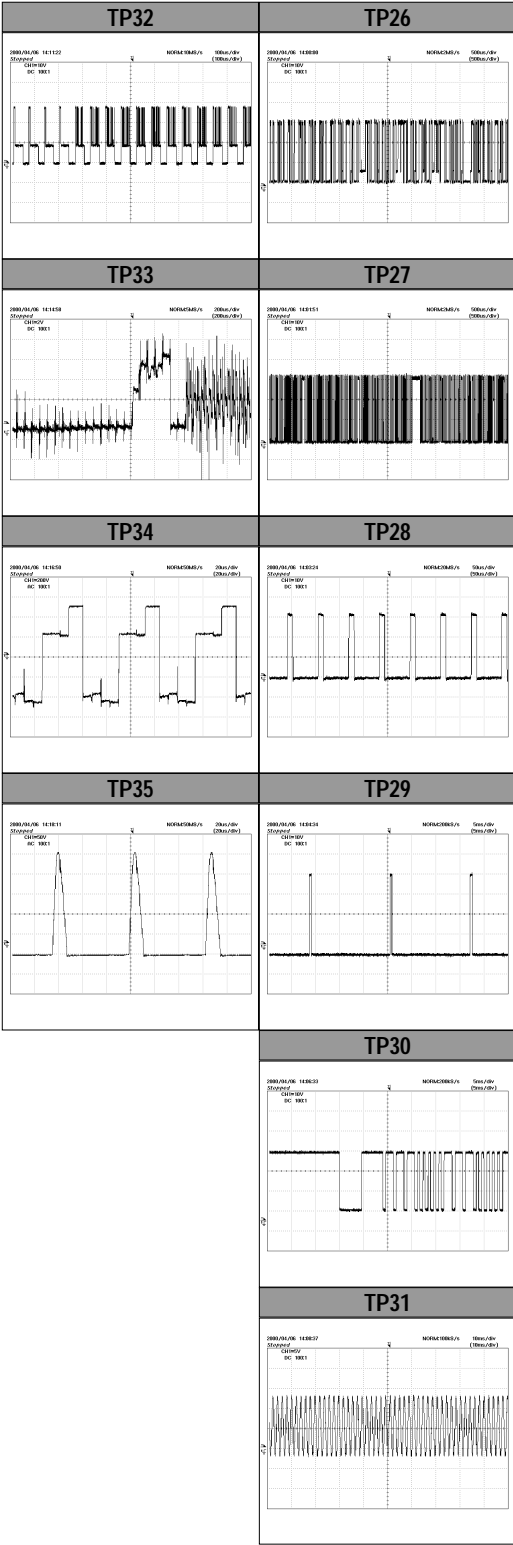
CAPACITOR	
Ceramic - SL	NO MARK
Ceramic - RH	(RH)
Ceramic - CH	(CH)
Polyester(Induct)	(P)
Polyester(Noninduct)	(PMU)
Polypropylene	(PP)
Metal Polyester	(MP)
M. P. Polypropylene	(MPP)
Tantalum	(T)
Non Polar	(NP)

RESISTOR	
Carbon	NO MARK
Composition	(RC)
Metal Oxide	(RS)
Metal Film	(RM)
Fusible	(RF)
Cement-Wire	(RW)
Network	(RN)

- NOTE**
1. Resistance is shown in ohm K=1,000 M=1,000,000
  2. Unless otherwise noted in schematic all capacitor values less than 1 are expressed in  $\mu$ F, and the values more than 1 in  $\mu$ F.
  3. Unless otherwise noted in schematic all inductor values more than 1 are expressed in  $\mu$ H.
  4. Voltage read with V.T.V.M (input impedance  $\geq 10$  M $\Omega$ /all range) from point indicated to chassis ground using a color bar signal with all control at normal line voltage 120 volts.
  5. Waveforms in chrominance circuit are taken receiving a color bar signal with enough sensitivity.
  6. Waveforms in other circuits are taken using an signal under normal receiving conditions.
  7. Voltage readings shown are normal values and may vary 20% except H.V.
  8. This is fundamental circuit diagram some production changes may be made without revision of the diagram.
  9. The circuits enclose in dotted lines are optional parts. (A)

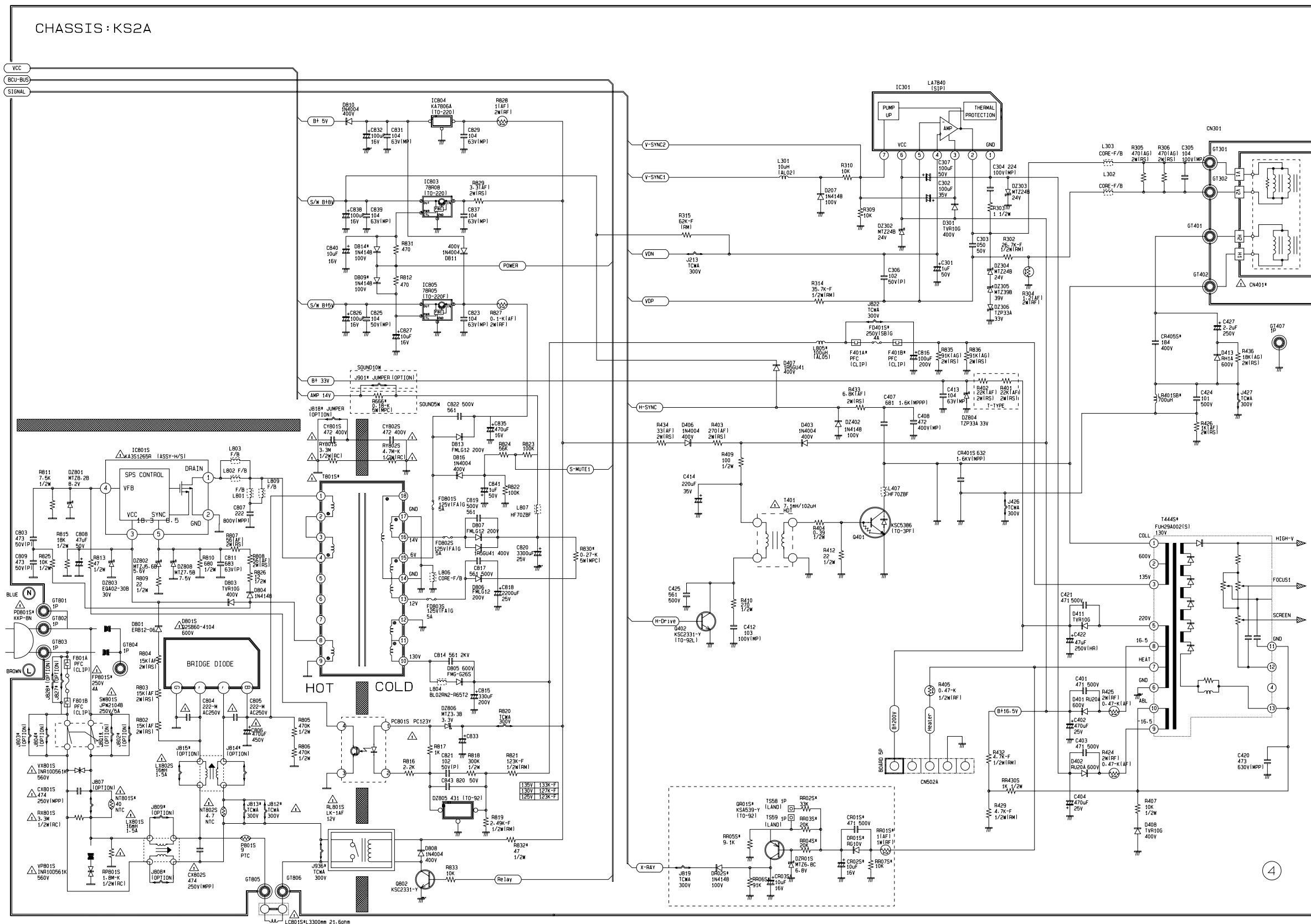
**WARNING :** BEFORE SERVICING THIS CHASSIS READ THE "X-RAY RADIATION PRECAUTION" "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" IN MANUAL.

**CAUTION :** The shaded area in the schematic diagram and the parts list designate components which have special characteristic. Important for safety and should be replaced only with types identical to those in the original circuit of specified in the parts list. Before replacing and of these components. Read carefully the "PRODUCT SAFETY NOTICE" in this manual. Do not degrade the safety of the receiver through improper servicing.

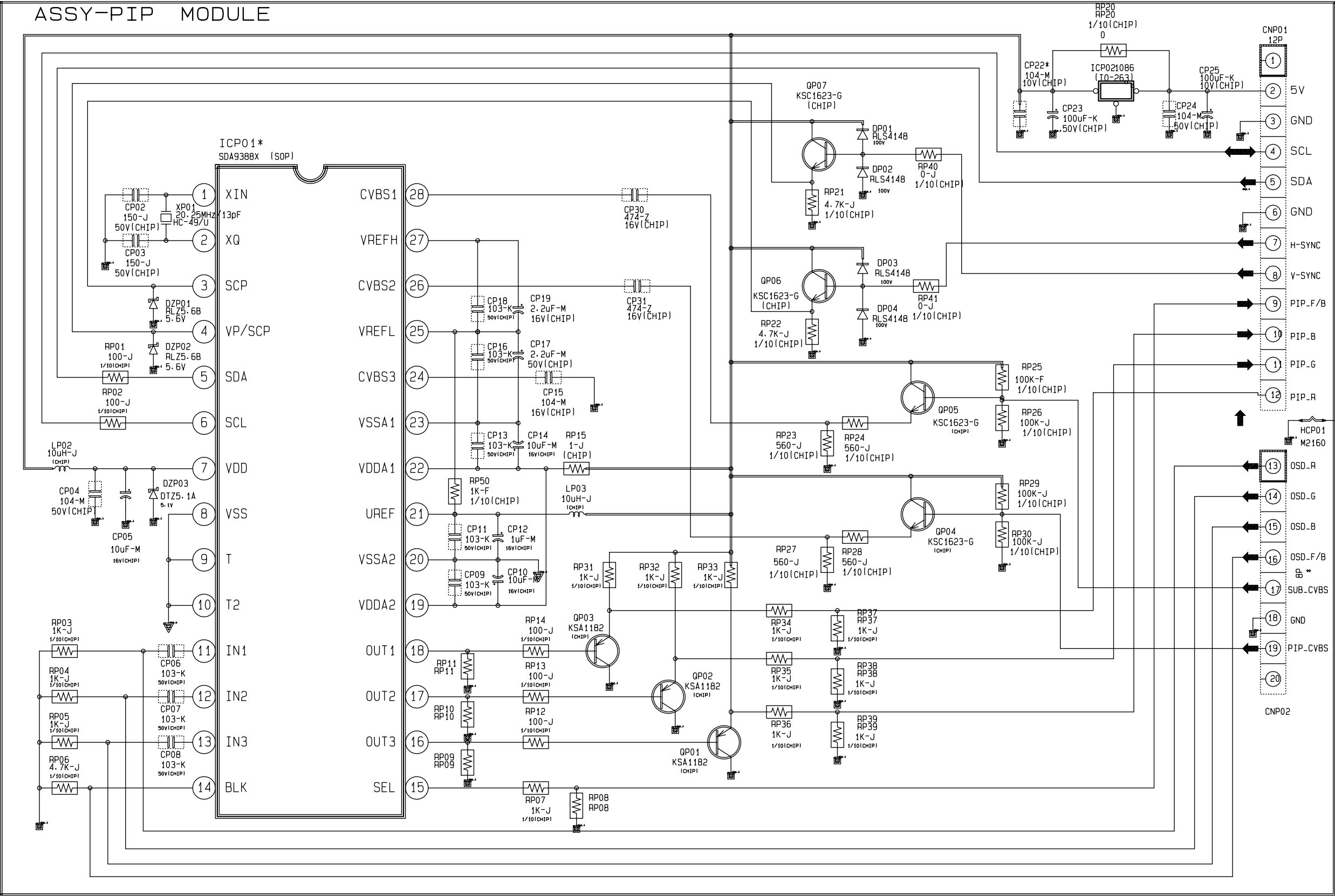




### 10-5 POWER (W/O -EW)



10-6 PIP



10-7 VIDEO SWITCH

